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FERTILIZER ANALYSES

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Names Wanted for Mailing-List

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ADDRESS

Chemical Department, Maryland State College of Agriculture

COLLEGE PARK, MD.

ANALYSES OF

Fertilizers Sold in Maryland

BY THE DIVISION OF APPLIED SCIENCE OF

The Maryland State College of Agriculture

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The tables on the following pages are made up of the results of the Analysis of fertilizers made at the College from February, 1917, to June, 1917, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer, his name, or initials, will be found after the "place of sampling." If "place of sampling" is not given, the sample has been made up of two or more samples taken at different places. Before sending samples of fertilizer for analysis, farmers should always send for blank forms and directions, stating the number of blanks wanted. One blank is required for each sample. No sample will be analyzed unless the proper blank form is used.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential parts of the guarantee as stamped on the bags.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory: the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the following schedule:

SCHEDULES FOR CALCULATING COMPARATIVE VALUES.

In Mixed Fertilizers:

For Nitrogen, calculated as Ammonia	25 cts.	per lb.,	$5.00 per unit
For potash (K_2O)	25 cts.	per lb.,	5.00 per unit
For Available Phosphoric Acid	5 cts.	per lb.,	1.00 per unit
For Insoluble Phosphoric Acid	2 cts.	per lb.,	0.40 per unit
For Insoluble Phosphoric Acid when from rock	1 ct.	per lb.,	0.20 per unit

In Dissolved Rock:

Available Phosphoric Acid	5 cts.	per lb.,	1.00 per unit
Insoluble Phosphoric Acid	1 ct.	per lb.,	0.20 per unit

In Tankage:

For Nitrogen, calculated as Ammonia	25 cts.	per lb.,	5.00 per unit
For Phosphoric Acid	3 cts.	per lb.,	0.60 per unit

In Ground Bone:

For Nitrogen, calculated as Ammonia	25 cts.	per lb.,	5.00 per unit
For Phosphoric Acid	3 cts.	per lb.,	0.60 per unit

*Resigned.
†Resigned May 15.
‡Resigned.

At the time the above schedule was adopted the comparative values obtained by its use were not far from the proper selling prices for cash in Baltimore. Toward the last of the season, however, prices of both ammoniates and phosphoric acid goods markedly advanced, due to the great demand for such goods. At the time this bulletin is issued ammonia should be figured at as much as $7 per unit and available phosphoric acid $1.25 per unit. At $1.25 per unit 16% acid phosphate is worth $20 per ton.

Potash is slightly lower in price than it was six months ago due to the increased production of potash in this country. At $5 per unit, however, the demand is limited.

The comparative values, as calculated from the tables, are intended, as the name implies, to afford a ready means of approximate comparison of similar fertilizers in terms of value, which is more readily understood by many persons than the analysis figures alone.

In the schedule for comparative values we add to the per pound schedule the equivalent for "units." To get comparative value from the guaranteed analysis, all that is necessary is to multiply the analysis figure by the value per unit and take the sum to get the comparative value per ton. For example, if the fertilizer is a 2-10-1, (2% ammonia, 10% available phosphoric acid and 1% potash), multiplying these figures by the per unit value. Thus we have 2 times $5 equals $10, 10 times $1 equals $10, 1 time $6 equals $6. The sum giving a comparative value of $26 per ton. This is somewhat less than such a fertilizer can be purchased at the present time, but as stated above, gives an approximate and easy method for comparison.

The increased cost of fertilizers and fertilizing materials, other than potash, is largely due to the freight situation. Phosphate rock that was formerly shipped to Baltimore by water is now shipped by rail at an increased cost.

There is a scarcity of freight cars to carry fertilizer and farmers should order their supplies well in advance of actual requirements, as such shipments are liable to be considerably delayed, due to freight car shortage.

EXPLANATION OF ANALYSES.

Nitrogen comes from various sources such as nitrate of soda, sulfate of ammonia, cyanimid, dried fish, animal tankage, etc. As the values in recognized available forms of nitrogen do not vary greatly, especially when considering the small percentage met with in the ordinary mixed fertilizer, we determine simply the total nitrogen, giving it in its equivalent of ammonia. 0.82% of nitrogen being equivalent to 1% of ammonia. There are unavailable sources of nitrogen that should not be used in fertilizer, such as hair, feathers, wool waste, dried peat, etc. The Maryland law requires that the ammonia in fertilizer be in an available form. Where material like peat are recognized in appreciable amounts the available ammonia will be determined by the standard method for making this test.

Materials containing nitrogen in unavailable forms such as hair, feathers, wool waste, leather, etc., may be changed to available forms by proper treatment with strong sulfuric acid. In practice this is done by mixing some of the material with the raw ground phosphate rock and treating the mixture with sulfuric acid as is done in making a plain dissolved rock phosphate. The mixture becomes quite hot and the prolonged treatment of the hot acid dissolves the nitrogenous material making it available. This material is called "base goods." In some cases the nitrogenous material is dissolved in hot acid and the acid then used to dissolve rock phosphate. However, the amount of nitrogen calculated as ammonia that can be secured in this way is rarely over 2%, and ammoniated fertilizer containing much more that 1% ammonia must contain in their formulas materials containing more nitrogen.

POTASH.

Only potash soluble in distilled water is recognized by our law and all of the potash results given in this bulletin are of potash soluble in distilled water. This gives no credit, of course, for the insoluble, unavailable and worthless potash that might be added in insoluble forms like feldspar. The soil of Maryland contains, on the average, at least 2% of insoluble potash.

PHOSPHORIC ACID

In the analysis for phosphoric acid it is divided into three parts depending upon its solubility. First the sample to be tested is extracted with pure water and the percentage of phosphoric acid extracted is called "*soluble phosphoric acid.*" The residue, insoluble in pure water is next treated with a solution of citrate of ammonia, specific gravity 1.09, for half an hour at a temperature of 65° C, and the phosphoric acid extracted by this treatment is termed "*reverted phosphoric acid.*" The soluble and reverted phosphoric acid are frequently determined together and called "*available phosphoric acid.*" The residue, after treating the sample with citrate of ammonia and extracting the reverted phosphoric acid, is dissolved in strong acid and the amount of phosphoric acid obtained is the "*insoluble phosphoric acid.*" The sum of the soluble, reverted and insoluble phosphoric acid gives the *total phosphoric acid.* In practice, however, it is found convenient to take a fresh sample of fertilizer, dissolve it in strong acid and determine the total phosphoric acid directly, and to get the available phosphoric acid by subtracting the insoluble phosphoric acid from the total phosphoric acid so obtained, thus avoiding the necessity of recovering the phosphoric acid from the citrate of ammonia solution mentioned above. It will thus be seen that the soluble phosphoric acid is included in the available phosphoric acid.

This may be made clearer by showing the relation of the various forms of phosphoric acid in a diagram as follows:

Soluble Phosphoric Acid Reverted Phosphoric Acid	Available Phos. Acid	Total Phosphoric Acid
Insoluble Phosphoric Acid		

It should be noted that the "Soluble Phosphoric Acid" is included in the "Available Phosphoric Acid."

In unacidulated bone, tankage, and other animal and vegetable matter that have not been treated with acid so as to make the phosphoric acid soluble, it is the custom not to make the determination of soluble or available phosphoric acid but simply to give the total phosphoric acid, as in such material the phosphoric acid is all the same throughout and the solubility depends largely on the fineness of the material.

In Quarterly Bulletin No. 73, of August 1916, we called attention to the extensive use of carbonate of lime as a drier and filler in many fertilizers and the fact that this frequently, by neutralizing the acid phosphate present, changes more or less of the soluble phosphoric acid to the reverted phosphoric acid condition, and that we believe this practice is undesirable, as it is generally recognized that the soluble phosphoric acid has a somewhat higher agricultural value than the reverted phosphoric acid though until recently in most cases the reverted phosphoric acid, being present in comparatively small amounts made it unnecessary to give the soluble and the reverted separately. It now seems necessary to call attention of consumers of fertilizers to the fact that available phosphoric acid in many of the fertilizers in use is largely in the reverted condition. A new column, therefore, has been added to the tables giving the soluble phosphoric acid. In most cases, where lime has not been mixed with the fertilizer, the soluble phosphoric acid should make up at least three-fourths of the available phosphoric acid. The consumers of fertilizers can, therefore, by a study of the following tables, find the fertilizers in which the precipitation or reversion of the soluble phosphoric acid has taken place, generally because of the addition of some form of lime.

The recent higher prices of fertilizer ingredients has increased the number of low grade fertilizers on the market so that the price per ton could be kept down at or near the figure the consumer previously paid per ton. This, however, is not economy, for the consumer will find, as a rule, that it is better to buy high grade goods and pay an additional price. There is little excuse, for example, for a fertilizer analyzing 1% ammonia and 8% available phosphoric acid. Such a fertilizer could be made from 200 lbs. of 10% fish and 1000 lbs. of 16% acid phosphate and 800 lbs. of worthless filler; or it could be made from 1000 lbs. of acid phosphate 16%, and 500 lbs. of low grade or garbage tankage containing 4% ammonia, and 500 lbs. of make-weight or filler. It could also be made by using "base goods" referred to above which would require nearly 1400 lbs. of base goods containing 12% available and 1½% ammonia and about 600 lbs. of filler. By buying high grade goods that do not require excessive amounts of lime or filler, the user of fertilizer will be practicing economy, as it is not economy to pay the price, the cost of bags, freight, hauling, etc., for filler. The remedy for this rests with the consumer. If he buys simply by the ton without referring to analysis, the manufacturer will be forced to prepare brands of fertilizer to accommodate him.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	Found.	Guaranteed.	Found. Included in Available.	Found.	Guaranteed.	Found.	Guaranteed.		
	Alphano Humus Co., New York, N. Y.												
35116	Alphano Humus (Low Grade) ...	Baltimore.....	† .83	1.50	.22	.50	.....	* 1.08	* .50	.....	.....	$ 5.90	$10.30
	American Agricultural Chemical Co., N. Y., N. Y.												
35012	Acid Phosphate 14%.....	Canton	.....	.....	.....	.....	10.45	.92	.....	13.79	14.00	13.97	14.00
35020	Acid Phosphate 16%.....	Baltimore.....	.....	.....	.....	.....	12.85	.75	.....	16.15	16.00	16.30	16.00
35215	Acid Phosphate 18%.....	Baltimore.....	.....	.....	.....	.....	13.60	.25	.....	17.76	18.00	17.81	18.00
35273	Ammoniated Fertilizer.....	.....	4.76	5.00	.....	.....	6.30	.95	.....	8.02	8.00	32.20	33.00
35126	Ammoniated Fertilizer.....	Baltimore.....	2.15	2.00	....	.....	4.90	1.62	.....	8.08	8.00	19.48	18.00
35117	Ammoniated Fertilizer.....	Ellicott City.....	1.14	1.00	.....	.....	5.90	1.57	.....	10.24	9.00	16.57	14.00
35046	Ammoniated Fertilizer.....	Baltimore.....	4.30	4.00	.....	.....	4.85	1.32	.....	8.20	8.00	30.23	28.00
35128	Ammoniated Fertilizer "A"....	Baltimore.....	1.38	1.00	.....	.....	6.70	.97	.....	10.14	10.00	17.43	15.00
35021	Ammoniated Fertilizer "AA"..	Baltimore.....	2.41	2.00	.....	.....	6.70	1.60	.....	9.80	10.00	22.49	20.00
35085	Ammoniated Fertilizer "AAA".	Baltimore.....	3.11	3.00	.....	.....	6.15	2.20	.....	9.72	10.00	26.15	25.00
35229	Amm'd Fertilizer "AAAA" ...	Baltimore.....	3.62	4.00	.....	.....	7.80	2.05	.....	10.35	10.00	29.27	30.00
35129	Amm'd Super Phosphate (L. G)	Baltimore.....	1.25	1.00	.....	.....	4.70	1.60	.....	8.10	8.00	14.99	13.00
35063	Climax Top Dresser.....	Canton	4.35	5.00	.....	.....	5.50	.60	.....	8.64	8.00	30.63	33.00
35064	Dead Shot Phos. 1916 (L. Gr.)..	Baltimore.....	1.13	.50	.94	1.00	3.65	1.30	.....	8.28	8.00	19.15	15.50
35257	Dissolved Animal Bone.....	Baltimore.....	2.34	2.50	.....	.....	4.70	7.57	.....	10.81	12.00	25.54	24.50
35208	Fish Fertilizer.....	Baltimore.....	2.18	2.00	.....	.....	7.00	1.12	.....	9.83	10.00	21.18	20.00
35209	High Grade Fertilizer.....	Baltimore.....	3.23	3.00	1.28	1.00	4.40	1.55	.....	8.38	8.00	31.55	28.00
35191	Special Mixture.....	Baltimore.....	2.34	2.00	.....	.....	6.45	1.75	.....	11.11	12.00	23.51	22.00
	A. A. C. Co., (Canton), Balto., Md.												
35140	Baker's Fish Guano 1916.....	Colora.....	2.03	2.00	1.10	1.00	4.80	1.40	.....	9.14	9.00	25.35	24.00

35118	Eagle Phosphate (Low Grade)	Baltimore	1.25	1.00	1.02	1.00	4.00	1.02	.....	7.51	7.00	$19.27	$17.00
35247	Harrow Brand Crop Grower	Thurmont	1.14	1.00	1.02	1.00	3.10	1.30	.....	8.17	8.00	19.49	18.00
35141	Potato & Vegetable Man. 1916	Colora	1.60	1.50	.88	1.00	5.35	1.92	.....	9.76	10.00	22.93	22.50
35230	Resurgam Guano 1916	Baltimore	1 23	1.00	.92	1.00	5.80	1.65	.....	10.31	10.00	21.72	20.00
	A. A. C. Co., (Detrick), Balto., Md.												
35186	Boss Truck Grower 1916	Baltimore	2.44	2.50	1.04	1.00	3.55	2.22	.....	7.85	8.00	26.14	25.50
35180	Corn & Oats Fertilizer	Canton	1.25	1.00	1.04	1.00	4.40	1.17	.....	9.46	9.00	21.38	19.00
35187	Gold Eagle	Baltimore	3.02	3.00	1.16	1.00	6.85	1.12	.....	9.30	9.00	30.65	29.00
35022	7-8-0 Fertilizer	Baltimore	7.01	7.00	.....	.....	6.65	.92	.....	8.18	8.00	43.60	43.00
	A. A. C. Co., (Lazaretto), Balto., Md.												
35023	Ammoniated Phosphate	Baltimore	1.35	1.00	1.04	1.00	5.00	1.00	.....	9.20	8.00	21.55	18.00
35159	Crop Grower	Baltimore	2.03	2.00	1.04	1.00	2.85	2.75	.....	8.50	9.00	24.95	24.00
35065	Farmers' Choice Brand	Canton	1.14	1.00	1.10	1.00	4.80	1 10	.....	9.17	9.00	20.81	19.00
35170	Spec. Tob. & Potato Fert	Graysons Whf	2.54	3.00	.88	1.00	6.75	1.30	.....	10.24	9.00	27.86	29.00
35233	Tomato Compound 1916	Baltimore	1.51	1.50	.90	1.00	4.90	2.35	.....	10.02	10.00	23.01	22.50
	A. A. C. Co., (Maryland), Balto., Md.												
35130	Special Compound	Baltimore	2.15	2.00	1.03	1.00	6.95	.95	.....	11.05	10.00	27.33	25.00
	A. A. A. Co., (Slingluff), Balto., Md.												
35024	Tobacco Plant Bed 10%	Baltimore	8.07	10.00	1.52	1.00	3.75	.95	.....	6.02	5.00	54.35	60.00
	A. A. C. Co., (Zell), Baltimore, Md.												
35066	Economizer Phosphate 1916	Annapolis	1.23	1.00	1 10	1.00	4.15	1.12	.....	8.19	8.00	20.29	18.00
35210	Potato & Corn	Baltimore	1.31	2.00	2.04	2.00	3.00	1.25	.....	8.87	8.00	26.12	28.00
35067	Special Compound 1916	Annapolis	3.05	3.00	1.12	1.00	5.05	1.97	.....	8.84	9.00	30.48	29.00
	Alexandria Fertilizer & Chemical Co., Alexandria, Va.												
35171	Gilt Edge Compound	Morgantown	1.42	1.25	1.60	2.00	4.25	1.77	.....	9.23	8.00	25.04	24.25
	American Fertilizing Co., Balto., Md.												
35131	Ammoniated Crop Compound	Baltimore	1 02	1.00	2.04	2.00	2.85	2.35	1.00	7.77	8.00	24.01	23.40
35086	Champion Super Phosphate	Baltimore	2.08	2.00	.....	.....	7.35	1.65	1.00	9.51	10.00	20.57	20.40
35087	Eagle Crop Grower	Baltimore	2.05	2.00	2.26	2.00	3.20	2.35	1.00	8.06	8.00	30.55	28 40
35000	Fish & Bone Compound	Baltimore	1.83	2.00	2.82	3.00	1.77	7.90	.....	9.82	8.00	33.78	33.00
35088	Fish & Bone Compound Revised	Baltimore	2.06	2.00	1.16	1 00	3 00	2.60	1.00	8.60	8.50	25.74	23.90
35280	Fish & Bone Special	Baltimore	2.12	2.00	.....	.....	8.55	3.00	1.00	10.69	11.00	22.49	21.40
35239	Grain & Grass Super-Phos	Baltimore	1.09	1.00	.....	.....	7.25	1.25	1.00	9.11	9.00	15.06	14 40
35218	Grain Rel. Amm'd. Form (L.G.)	Mt. Airy	.80	.50	.....	.....	7.30	.77	.....	10.20	10.00	14.51	12.50

†This "Humus" is dried peat in which the nitrogen (ammonia) is of low availability. The available ammonia being but 0.83%, the total being 1.81%. The law requires that nitrogen in fertilizers be in an available form.

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					**Comparative Value Per Ton Found.**	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	**Found.**	Guaranteed.	**Found.** Included in Available.	**Found.**	Guaranteed.	**Found.**	Guaranteed.		
	American Fertilizing Co., Balto. Md.												
35002	H. G. Acid Phosphate 14%.....	Fairfield.....	.....	.....	.....	.....	12.00	.87	.....	14.97	14.00	$15.14	$14.00
35003	H. G. Acid Phosphate 16%.....	Fairfield.....	.....	.....	.....	.....	13.55	1.25	.....	16.20	16.00	16.45	16.00
35462	H. G. Acid Phosphate 16%.....	Reids Grove (L. B.)	.....	.....	.....	.....	13.90	1.92	.....	15 88	16.00	16.26	16.00
35089	Special Formula (Low Grade)..	Baltimore.....	.61	.50	1.06	1.00	3.35	1.45	1.00	7.76	8.00	16.69	15.90
35100	Stable Mixture Substitute.....	Preston.....	3.14	3.00	.....	.....	5.50	1.42	1.00	7.55	7.00	23.82	22.40
	Armour Fertilizer Works, Inc., Balto., Md.												
35090	Acid Phosphate 16%.....	Baltimore.....	.....	.....	.....	.....	13.60	2.00	.....	16.91	16.00	17.31	16.00
35457	Acid Phosphate 16%.....	Stevensville (J. C. P.)...	.....	.....	.....	.....	14.05	1.87	.....	16.54	16.00	16.91	16.00
35101	Bone Meal.....	Vienna	3.04	3.00	.....	.....	.....	*26.01	*22.00	.....	.....	30.81	28.20
35091	Crop Grower.....	Baltimore.....	1.09	1.00	2.14	2.00	4.15	1.02	.....	8.02	8.00	24.58	23.00
35004	Farmers' Choice Fertilizer.....	Baltimore.....	1.02	1.00	2.64	3.00	6.95	.82	.....	9.49	9.00	28.12	29.00
35102	4-8-2.....	Chestertown.....	3.94	4.00	2.48	2.00	6.05	82	.....	8.35	8.00	40.78	38.00
35025	4-8-4 Fertilizer.....	Baltimore.....	3.81	4.00	3.68	4.00	6.20	1.75	.....	8.53	8.00	46.68	48.00
35005	5-8-1 Fertilizer.....	Baltimore.....	5.05	5.00	1.36	1.00	5.50	1.02	.....	7.92	8.00	40.38	38.00
35007	5-8-0 Fertilizer.....	Baltimore.....	4.93	5.00	.....	.....	6.25	1.32	.....	8.40	8.00	33.58	33.00
35006	General Fertilizer.....	Baltimore.....	1.96	2.00	2.08	2.00	4.90	1.12	.....	8.03	8.00	28 68	28.00
35013	Grain Grower.....	Locust Point.	2 20	2.00	2.28	2.00	5.80	1.35	.....	8.35	8.00	31.29	28.00
35272	1½-9-0 Fertilizer.....	Baltimore.....	1.59	1.50	.....	.....	5.20	1.70	.....	8.41	9.00	17.04	16.50
35188	1-8-0 Fertilizer (Low Grade)....	Baltimore.....	1.11	1.00	.....	.....	5 90	1.40	.....	8.02	8.00	14.13	13.00
35103	1-10-0.....	Chestertown.....	1.06	1.00	.....	.....	5.00	1.10	.....	9.29	10 00	15.03	15.00
35160	1-12-0.....	Baltimore.....	1.19	1.00	.....	.....	10.10	1.10	.....	12.08	12.00	18.47	17.00
35161	Raw Bone Meal.....	Baltimore.....	4.79	4.50	.....	.....	.....	*22.81	*21.50	.....	.....	37.64	35.40

35142	7-8-0	Pocomoke City	7.15	7.00	.....	.....	6.65	.57	.....	7.81	8.00	$43.79	$43.00
35026	3-8-1 Fertilizer	Baltimore	2.75	3.00	1.18	1.00	5.20	1.75	.....	8 18	8.00	28.53	28.00
35104	3-10-0	Easton	3.43	3.00	.....	.....	8.00	1.07	.....	10.09	10.00	27.67	25.00
35105	2-10-0	Chestertown	2.08	2.00	.....	.....	7.55	.80	.....	10.02	10.00	20.74	20.00
35008	Wht. Corn & Oats Spec. (L.G.)	Baltimore	1 09	1.00	1.04	1.00	3.10	1.10	.....	6.76	7.00	17.85	17.00
35132	Whites Tomato Spec. (Low Gr)	Baltimore	1.01	1.00	.92	1.00	5.30	.82	.....	7.25	7.00	17.23	17.00
	Baltimore Fertilizer Co., Balto., Md.												
35240	Acid Phosphate 16%	Bel Air	.....	.....	.....	.....	14.35	.62	.....	16.44	16.00	16.56	16.00
35241	Dissolved Bone 2 & 10	Bel Air	2.24	2.00	.....	.....	7.65	3.25	.....	10.94	10.00	23.44	20.00
35172	Honest Ammoniated Bone	Leonardtown	2.02	2.00	.....	.....	6.65	1 85	.....	9.95	9.50	20.79	19.50
35173	Honest Corn Grower	Leonardtown	1.04	1.00	.....	.....	6.95	2.20	1.00	9.34	10.00	15.42	15.40
35133	Honest Potato Grower (L. Gr.)	Baltimore	1.55	2.00	.40	.52	4.10	.75	1.00	7.84	8.00	17.89	20.90
35174	Honest Pot. & Tob. Gro. (L. G.)	Faulkner	2.15	3.00	.44	.50	3.60	1.17	.....	8.98	8.00	22.40	25.50
35014	Honest Pot. & Tob. Gro. (L. G.)	Canton	2.68	3.00	.56	.50	6.30	.62	.....	7.94	8.00	24.39	25.50
35047	Honest Trucker	Canton	4.27	5.00	1 18	1.00	3.75	.92	.....	8.31	8.00	35.93	38.00
35252	Honest Wheat & Grass	Baltimore	2.01	2.00	.....	.....	8.35	2.77	.....	11.10	10.00	22.26	20.00
35027	Old Honesty (Low Grade)	.....	1.23	1.00	.34	.25	4.60	.92	.....	8.25	8.00	16.47	14.25
	Baltimore Pulverizing Co., Balto., Md.												
35119	Bone, Blood & Potash	Canton	4.20	5.00	1.44	1.00	2.85	.72	.....	8.45	8.00	36.94	38.00
35276	Farmer's Favorite Fert. (L. G.)	Baltimore	.77	1.00	1.50	1.00	.90	.85	....	6.93	7.50	18.62	17.50
35028	Penniman's Tobacco	Canton	2 12	2.00	1.06	1.00	2.70	.85	.....	9.14	9.00	25.38	24.00
35092	Potato Guano 7%.	Baltimore	6.84	7.00	.....	.....	4 45	.52	.....	6.75	6.00	41.16	41.00
35068	Royal Compound	Canton	2.32	2.00	1.14	1.00	2.10	1.17	.....	8.81	8.00	26.58	23.00
35069	Special Potato Mixture	Canton	2.35	2.00	1.12	1.00	2 05	1.02	.....	8.10	7.00	25.86	22.00
35093	Special 7% Potato Guano	Baltimore	6.09	7.00	1.58	1.00	4.65	.32	.....	7.43	6.00	45.91	46.00
35049	Special Strawberry Compound	Baltimore	4.03	4.00	1.18	1.00	1.40	.97	.....	7.30	7.00	33.74	32.00
35029	Trucker's Choice	Canton	2.66	3.00	1.03	1.00	3.15	1.17	1.00	8.27	8.00	27.19	28.40
	Baugh & Sons Co., Baltimore, Md.												
35009	Acid Phosphate 16%	Baltimore	.....	....	.....	.....	13.60	1.17	.....	16.13	16.00	16.36	16.00
35143	Am'd Soluble Alkaline (L. Gr.)	Willards	.87	.50	.68	.50	6.60	1.07	.....	8.40	8.00	16.58	13.00
35120	Ammoniated Super Phosphate	Ellicott City	1.42	1.25	.....	.....	7.85	2.17	.....	10.02	10.00	17.99	16.25
35015	Animal Base and Potash Comp.	Canton	2.66	2.00	1.28	1.00	7.85	1.80	.....	9.20	9.00	29.68	24.00
35070	Complete Animal Base Fert	Baltimore	2.17	2.00	1.28	1.00	8.60	1.87	.....	10.29	10.00	28 29	25.00
35219	Corn & Oats Fertilizer	Mt. Airy	2.13	2.00	.....	.....	8.50	1.85	.....	10.63	10.00	22.02	20.00
35188	Double Eagle Phosphate	Baltimore	2.15	2.00	1.28	1.00	5.80	3.10	.....	8.61	8.50	27.00	23.50
35196	Durable Plant Food	Aberdeen	2.02	2.00	2.52	2.00	5.85	1.92	.....	8.09	8.00	31.56	28.00
35163	Excelsior Guano	Canton	1.98	1.25	.92	1.00	8.10	2.50	.....	10.36	10.00	25.86	21.25

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	Found.	Guaranteed.	Found. Included in Available.	Found.	Guaranteed.	Found.	Guaranteed.		
	Baugh & Sons Co., Baltimore, Md.												
35253	Fine Ground Bone	Baltimore	3 69	3.00	.....	.....	.....	*24.23	*16.49	.....	.....	$32.99	$24.89
35106	Fish Base & Potash	Preston	1.89	1.25	2.18	2.00	6.00	2.07	.....	8.69	8.00	29.87	24.25
35050	Fish Bone Guano	Baltimore	2.17	2.00	.....	.....	6.90	3.32	.....	9.85	10.00	22.03	20.00
35071	Fish Mixture	Baltimore	2.04	2.00	1.30	1.00	8.00	2.05	.....	10.33	9.00	27.85	24.00
35051	General Crop Grower	Canton	1.72	1.00	1.02	1.00	6.55	1.30	.....	8.40	8.00	22.62	18.00
35175	Grand Rapid H. G. Guano	Graysons' Whf	3.21	3.00	.96	1.00	8.95	1.70	.....	10.46	9.00	31.99	29.00
35072	Ground Fish	Baltimore	10.06	10.00	.....	.....	.....	*6.66	*6.87	.....	.....	54.30	54.12
35107	Half & Half Mixture	Chestertown	1.66	1 50	.....	.....	4.80	8.75	.....	10.92	19.00	22.72	26.50
35030	H. G. Amm'd Animal Base	Canton	4.10	4.00	.....	.....	7.90	1.95	.....	9.76	10.00	31.04	30 00
35073	H. G. Potato Grower	Baltimore	4.35	4.00	1.16	1.00	5.95	4.00	.....	9.20	8.00	38.35	33.00
35042	Mixed to Order	Glenburnie	5.17	5.00	.....	.....	6.25	2.38	.....	8.30	8.00	35.10	33 00
35270	Mixed to Order Fert	Baltimore	2.12	2.00	.....	.....	6.75	2.00	.....	9.03	8.50	20.43	18.50
35016	New Process 10% Guano	Canton	9 82	10.00	.....	.....	5.05	1.52	.....	6.08	5.00	55.79	55.00
35043	Norfolk Special Guano	Brooklyn	6.91	7.00	.....	.....	7.05	1.70	.....	8.79	8.00	44.02	43.00
35031	Norfolk Special Guano	Canton	6.90	7.00	.....	.....	5.30	2.45	.....	7.08	8.00	42.56	43.00
35094	Old Standard Animal Base	Baltimore	2.05	2.00	.....	.....	11.15	2.20	.....	12.40	12.00	23.53	22.00
35134	Peninsula Grain Producer	Baltimore	1.14	1.00	.....	.....	7.15	2.12	.....	8.83	9.00	15.38	14.00
35074	Peruvian Guano Substitute	Baltimore	5.53	5.00	1.20	1.00	7.20	2.95	.....	8.49	8.00	43.32	38.00
35032	Potato & Truck Special	Canton	3.38	3.50	1.16	1.00	9.05	1.72	.....	10.70	10.00	34.09	32.50
35211	Pure Dissolved Animal Bone	Baltimore	2.58	2.50	.....	.....	3.70	2.62	.....	14.04	13.00	27.99	25.50
35076	Raw Bone Meal	Canton	4.44	4.50	.....	.....	.....	*22.24	*21.50	.....	.....	35.54	35.40
35231	Special Potato Manure	Baltimore	2.18	2.00	1.08	1.00	8.40	1.60	.....	10.91	10 00	27.85	25.00
35044	Strawberry Top Dresser	Glenburnie	5.29	5.00	.....	.....	6.15	2.50	.....	8.28	8.00	35.73	33.00

35033	Strawberry Top Dresser	Canton	5.07	5.00	.....	.....	6.70	2.70	.....	8.09	8.00	$34.52	$33.00
35095	Tomato Compound	Baltimore	2.20	2.00	1.20	1.00	8.10	1.47	.....	10.05	10.00	27.64	25.00
35045	Trucker's Favorite	Brooklyn	3.14	3.00	.....	.....	9.00	1.92	.....	10.50	10.00	26.97	25.00
	R. B. Beckley, Half Way, Md.												
35261	Bone Mixture	Half Way	1.59	1.50	.....	.....	9.00	1.20	.....	13.80	14.00	22.23	21.50
35269	Fish Compound	Half Way	1.18	1.25	.....	.....	9.60	.87	.....	12.61	12.00	18.86	18.25
	N. T. Bennett, New Windsor, Md.												
35220	Butcher House Phosphate	New Windsor	1.64	1.00	.....	.....	8.70	4.22	.....	11.27	11.00	21.16	16.00
	Berg Company, Philadelphia, Pa.												
35144	Animal Bone & Meat	Fallston	3.92	4.00	.....	.....	.....	*19.50	*17.00	.....	.....	31.30	30.20
35242	New Special Bone Manure	Perryman	2.02	2.43	1.04	1.00	6.40	3.25	.....	8.26	7.00	24.86	24.15
35145	Raw Bone Fine	Fallston	4.45	4.50	.....	.....	.....	*20.72	*21.50	.....	.....	34.68	35.40
35243	New Special Bone Mix. (L. Gr.)	Perryman	2.59	2.43	.....	.....	5.45	3.65	.....	8.75	7.00	23.16	19.15
35244	New Standard Bone	Perryman	3.75	3.64	1.12	1.25	4.50	5.37	.....	7.46	8.00	33.96	32.45
	Bowker Fertilizer Co., Boston, Mass.												
35121	Harvest Bone	Baltimore	1.37	1.00	.88	1.00	3.65	1.92	.....	8.12	8.00	20.14	18.00
35216	Hill & Drill Phosphate	Baltimore	3.50	3.00	.94	1.00	6.20	.77	.....	10.47	9.00	32.98	29.00
35279	Potato Phosphate 1916	.....	1.80	2.00	1.42	1.00	4.58	1.42	.....	9.05	10.00	25.72	25.00
35262	Sure Crop Phosphate	Smithsburg	1.16	1.00	.86	1.00	2.85	1.15	.....	8.80	10.00	19.36	20.00
35263	Super-Phos. with Ammonia	Smithsburg	2.49	2.00	.....	.....	8.40	1.22	.....	10.38	10.00	23.32	20.00
	Bryant Fertilizer Co., Alexandria, Va.												
35122	Bone Ammoniated	Baltimore	2.15	2.00	.....	.....	8.40	1.62	.....	10.38	10.00	21.78	20.00
35164	Dissolved Bone	Baltimore	2.88	3.00	1.40	1.00	6.50	1.00	1.00	8.61	8.00	30.41	28.40
35165	Formula "E"	Baltimore	2.08	2.00	2.04	2.00	6.25	1.02	1.00	8.03	8.00	29.04	28.40
35166	Phosphate 16%	Baltimore	.....	.....	.....	.....	14.00	1.62	.....	16.17	16.00	16.49	16.00
35176	Queen Amm'd Dissolved Bone	Millers	1.08	1.00	1.02	1.00	3.35	1.92	1.00	8.71	8.00	19.98	18.40
35259	Slaughter House Bone	Baltimore	1.14	1.25	.....	.....	7.80	1.05	1.00	9.69	10.00	15.81	16.65
35177	Tomato Super-Phosphate	Millers	2.37	2.00	1.16	1.00	2.95	1.85	1.00	8.94	9.00	27.33	24.40
	Herbert Bryant's Son, Alexandria, Va.												
35214	Standard Fish & Bone	Washington Grove	2.03	2.00	.....	.....	8.35	1.02	.....	10.65	10.00	21.21	20.00
	Cen. Chem. Co., Thomas Fert. Works, Hagerstown, Md.												
35264	Acme Brand (Low Grade)	Boonsboro	1.02	1.00	.....	.....	4.35	.97	.....	7.56	8.00	13.05	13.00
35248	Ammoniated Phos. (Low Gr.)	Emmitsburg	.65	.50	.....	.....	6.00	1.20	.....	8.48	8.00	12.21	10.50
35249	Dissolved Phosphate	Graceham	.....	.....	.....	.....	13.25	1.15	.....	16.23	16.00	16.46	16.00
35250	Pride of the Valley	Emmitsburg	.94	1.00	.....	.....	7.80	1.27	.....	10.01	10.00	15.22	15.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	Found.	Guaranteed.	Found. Included in Available.	Found.	Guaranteed.	Found.	Guaranteed.		
	Cen. Chem. Co., Thomas Fertz. Wks.,	**Hagerstown, Md.**											
35265	Special Bone Mixture	Boonsboro	1.79	2 00	.....	.....	6.50	.77	.....	9.75	10.00	$19.01	$20.00
35251	Superior	Graceham	1.02	1.00	.....	.....	9.10	1.02	.....	12.21	12 00	17.72	17.00
	Chesapeake Chemical Co., Balto.,	**Md.**											
35207	Buyers Favorite	Baltimore	1.14	1.00	.....	.....	9.15	1.02	.....	11.14	10.00	17.25	15.00
35077	Champion Producer	Baltimore	5.41	5.00	1.18	1.00	6.85	.62	.....	8.39	6.00	41.59	36.00
35192	Dissolved Phosphate 14%	Baltimore	.....	.....	.....	.....	8.10	2.02	.....	13.87	14.00	14.27	14.00
35167	Favorite Producer	Baltimore	3.01	3.00	.....	.....	2.35	3.45	.....	7.92	10.00	24.35	25.00
35245	Gem Phosphate (Low Grade)	Freeland	1.16	1.00	.....	.....	2.45	2.12	.....	7.84	8.00	14.49	13.00
35053	Granger's Phosphate	Baltimore	2.13	2.00	.....	.....	4 40	1.57	.....	10.37	10.00	21.65	20.00
	John L. Clark & Son, Ellicott City,	**Md.**											
35123	Clark-Son Mixture	Ellicott City	3 09	2.50	.....	.....	5.85	5.72	.....	6.92	12.50	24.66	25.00
	Columbia Guano Co., Balto., Md.												
35267	Growmore Compound	Grantsville	2.08	2.00	1.04	1.00	7.20	1.42	.....	9.32	8.00	25.49	23.00
	Josiah Cope & Co., Baltimore, Md.												
35078	Ammoniated Fertilizer	Baltimore	3.03	3.00	.....	.....	6.85	2.07	.....	9.55	10.00	25.53	25.00
35197	Fish Guano	Rising Sun	2.12	2.00	.....	.....	5.60	1.17	.....	8.12	8.00	19.19	18.00
35054	5-8-0 Fertilizer	Baltimore	4.85	5.00	.....	.....	5.15	1.82	.....	8.51	8.00	33.29	33.00
35079	General Mixture	Baltimore	2.61	2.50	1.20	1.00	3.15	2.92	.....	7.06	8.00	27.28	25 50
35204	Wheat & Grass Special	Rising Sun	1.35	1.00	1.06	1.00	1.55	1.40	.....	7.56	8.00	20.17	18.00

	E. A. Corey, Worton, Md												
35146	H. G. Potato No. 2	Chestertown	4.56	5.00	3.96	5.00	5.70	1.47	.....	8.09	8.00	$51.28	$58.00
35464	H. G. Potato No. 2	Chestertown	4.90	5.00	4.72	5.00	5.25	1.95	.....	7 69	8.00	56.57	58.00
	L. E. P. Dennis & Son, Crisfield, Md.												
35147	No. 1 Fish Mixture	Westover	3.04	3.00	.....	.....	3.95	2.10	.....	8.96	8.00	25.00	23.00
35198	No. 2 Fish Mixture	Crisfield	2.05	2.00	.....	.....	1.95	1.55	.....	8.92	8.00	19.79	18.00
35148	Spec. Round Potato Mixture	King's Creek	4.44	5.00	.....	.....	6.75	1.17	.....	9.38	8.00	32.05	33.00
	Eastern Guano Co., New York, N. Y.												
35268	Bone Compound	Hancock	2.03	2.00	.....	.....	6.65	.87	.....	10.35	10.00	20:85	20.00
	Edelen Brothers, Baltimore, Md.												
35260	H. G. Tobacco Fertilizer	Baltimore	3.82	4.00	1.03	1.00	4.20	1.50	.....	7.60	6.00	32.45	31.00
35234	Special Tobacco Guano	Baltimore	3.03	3.00	1.02	1.00	6.35	2.15	.....	9.55	8.00	30.66	28.00
	John A. Englar, Linwood, Md.												
35221	No. 2 Ammoniated Bone	Linwood	1.26	1.00	.....	.....	12.40	.35	.....	14.20	10.00	20.64	15.00
	Eureka Chemical Co., Balto., Md.												
35135	C. I. S. Special	Canton	2.85	3.00	.....	.....	4.15	.95	.50	7.42	8.00	22.05	23.20
35199	Dissolved Animal Base	Perryman	1.43	1.50	.....	.....	4.55	.45	.....	8.44	9.00	15.77	16.50
35149	Farmer's Favorite	Rising Sun	1.95	2.00	.....	.....	4.35	1.10	.50	7.75	8.00	17.94	18.20
35150	Fish & Potash (Low Grade)	Rising Sun	.68	.50	.34	.25	4.10	.78	.50	7.03	8.00	12.44	11.95
35152	Potato & Vegetable	Rising Sun	2.05	2.00	1.22	1.00	1.00	1.27	.50	7.07	7.00	23.93	22.20
	Eureka Fertilizer Co., Perryville, Md.												
35151	No. 1 Potato & Vegetable	Aiken	1.31	1.50	.18	1.00	3.20	.97	1.00	8.67	8.00	16.51	20.90
35200	Special 2-8	Rising Sun	1.57	2.00	.....	.....	4.50	.97	.....	9.01	8.00	17.25	18.00
	W. S. Farmer & Co., Baltimore, Md.												
35136	All Crop Grower	Baltimore	2.05	2.00	.....	.....	5.50	1.57	.....	9 71	10.00	20.59	20.00
35255	All Crop Mixture No 1	Baltimore	1.02	1.00	.....	.....	7.20	1.57	.....	10.26	10.00	15.99	15.00
35256	All Crop Mixture No. 3	Baltimore	3.05	3.00	.....	.....	3.70	.85	.....	10.82	10.00	26.41	25.00
35108	Anne Arundel Trucker	Cambridge	4.71	5.00	1.08	1 00	4.95	2.17	.....	9.50	8.00	39.32	38.00
35034	Clyde Brand 1916	Baltimore	1.23	1.00	1.08	1.00	4.15	1.02	.....	7.92	8.00	19.88	18.00
35137	General Crop Grower (L. Gr.)	Baltimore	1.08	1.00	.88	1.00	3.80	1.10	.....	7.02	7.00	17 26	17.00
35450	H. G. Super Phosphate	Reids Grove (H. R. R.)	.....	.....	.....	.....	13.40	.85	.....	16 02	16.00	16.19	16.00
35178	Pelican Guano (L. Gr.)	Bayside	.61	.50	1.04	1.00	4.55	1.20	.....	8.04	8.00	16.77	15.50
35179	Standard Phosphate 1916	Solomons	2.54	2.50	1.20	1.00	7.65	.75	.....	10.34	10.00	29.34	27.50

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					**Comparative Value Per Ton Found.**	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	**Found.**	Guaranteed.	**Found.** Included in Available.	**Found.**	Guaranteed.	**Found.**	Guaranteed.		
	Farmers' Fertilizer & Feed Co., Westminster Md.												
35222	Indian Chief	Westminster	1.18	1.00	.....	.....	9.85	1.12	1.00	11.74	11.00	$18.09	$16.40
35223	XX Phosphate	Westminster	1.03	1.00	.....	.....	8.30	.82	1.00	9.94	9.00	15.42	14.40
	Farmers & Planters Co., Salisbury, Md.												
35274	Early Vegetable Mixture	.....	4.78	5.00	.....	.....	6.70	1.32	.....	9.41	8.00	33.84	33.00
35110	Fish Mixture	Preston	2.56	2.00	.....	.....	2.55	2.92	.....	8.79	8.00	22.76	18.00
35111	Gen. Crop Gro. Mix Rev. 1917	Preston	1.21	1.00	.....	.....	3.65	1.80	.....	12.23	11.00	19.00	16.00
35153	H. G. Acid Phosphate 14%	Newark	.....	.....	.....	.....	11.45	.50	.....	14.34	14.00	14.44	14.00
35154	H. G. Acid Phosphate 16%	Princess Anne	.....	.....	.....	.....	13.85	.25	.....	16.50	16.00	16.55	16.00
35155	H. G. 7% Mixture	Newark	6.77	7.00	.....	.....	6.00	1.80	.....	8.03	6.00	42.60	41.00
35112	Peerless (Low Grade)	Preston	.97	.50	.....	.....	.90	1.22	.....	8.14	10.00	13.48	12 50
35156	Special Fish Mixture	Princess Anne	2.41	2.50	.....	.....	7.95	1.07	.....	9.75	9.00	22.23	21.50
35113	Trucker's Mixture	Bethlehem	3.12	3.50	.....	.....	6.65	1.42	.....	10.69	9.00	26.86	26.50
	Griffith & Boyd Co., Balto., Md.												
35055	Blood & Bone Mixture	Baltimore	3.70	4.00	.....	.....	5.50	2.30	.....	8.11	8.00	27.53	28.00
35017	Farmer's Bone Mixture	Canton	1.48	2 00	.....	.....	4.95	2.47	.....	9.61	9.00	18.00	19.00
35096	Farmer's Potato & Tomato	Baltimore	1.21	1.50	1.12	1.00	5.30	1.08	.....	9.01	8.00	21.09	20.50
35201	Fish, Bone & Potash (L. Gr.)	Easton	1.84	1.75	.68	1.00	5.30	1.75	.....	9.49	7.00	22.79	20.75
35018	Fish & Bone Mixture (L. Gr.)	Canton	1.45	1.75	.....	.....	3.15	2.40	.....	7.37	7.00	15.58	15.75
35036	H. G. Acid Phosphate	Baltimore	.....	.....	.....	.....	12.05	.92	.....	16.38	16.00	16.56	16.00
35037	Harvest Queen	Baltimore	1.25	1.00	1.52	1.00	5.45	2.50	.....	8.50	8.00	23.35	18.00
35019	Peerless Mixture (L. Gr.)	Canton	.63	.50	.....	.....	6.60	1.45	.....	8.85	8.00	12.58	10.50
35205	Pure Dissolved Animal Bone	Baltimore	2.97	2.50	.....	.....	8.60	1.20	.....	10.42	10.00	25.75	22.50

35184	Queen Guano	Canton	.78	1.00	.....	.....	7.30	1.62	.....	9.33	9.00	$13.88	$14.00
35138	Special Fish Mixture	Baltimore	2.90	2.50	.....	.....	4.25	3.57	.....	8.24	8.00	24.17	20 50
35035	Special Fish Mixture	Baltimore	2.54	2.50	.....	.....	5.90	1.75	.....	8.02	8.00	21.42	20.50
35056	Special 7% Guano	Baltimore	6.81	7.00	.....	.....	4.00	.90	.....	6.46	6.00	40.87	41.00
35080	Spring Crop Grower (L. Gr.)	Canton	1.86	2.00	.56	1.00	5.45	1.60	.....	7.25	6 50	19.99	21.50
35114	Trucker's Manure Sub. (L. Gr.)	Cambridge	2.92	3.50	.....	.....	2.05	2.50	.....	5.53	5.00	21.13	22.50
35193	Vegetable Bone	Baltimore	2.39	3.00	.72	1.00	5.05	2.00	.....	8.36	8.00	24.71	28.00
	Griffith & Turner Co., Balto., Md.												
35057	Amm'd. Alk. Pl't. Food (L. Gr.)	Canton	1.02	1.00	1.10	1.00	4.55	2.00	1.00	7.95	6.50	19.35	16.90
35246	Amm'd Butchers Bone Phos	Long Green	1.09	1.25	1.42	1.00	7.85	1.32	.....	9 28	9.00	22.36	20.25
35058	Animal Bone Phosphate	Canton	1.42	2.50	1.28	1.00	4.15	2.07	.....	9.41	10.00	23.74	27.50
	Hampstead Fertilizer Co., Hampstead, Md.												
35224	Acid Phosphate 16%	Hampstead	.....	.....	.....	.....	13.40	.60	.....	16.38	16.00	16.50	16.00
35225	Grain & Grass Grower	Hampstead	1.95	2.00	.....	.....	4.70	1.60	.....	10.83	10.00	21.22	20.00
35226	Honesty (Low Grade)	Hampstead	1.60	1.00	.38	.50	4.00	2.02	.....	8.02	8.00	18.73	15.50
35227	Old Honesty (Low Grade)	Hampstead	1.02	1.00	.42	.25	3.10	1.95	.....	7.84	8.00	15.82	14.25
	S. M. Hess & Bro., Inc., Phila., Pa.												
35157	Fish & Potash Manure 1916	Sharptown	2.03	2.00	1.04	1.00	4.10	2.65	.....	9.03	9.00	25.44	24.00
35081	Keystone Phosphate	Baltimore	1.11	1.00	1.03	1.00	3.60	1.22	.....	8.42	8.00	19.61	18 00
35217	Market Garden Manure	Baltimore	5.02	5 00	.....	.....	4.90	1.77	.....	7.95	8.00	33.76	33.00
35124	Reliable Super-Phosphate	Canton	3.19	3.00	.....	.....	6.00	1.60	.....	10.02	10.00	26.61	25.00
35038	Special Corn Manure	Baltimore	1.16	1.00	1.08	1.00	4.85	1.08	.....	9.01	9.00	20.64	19.00
35158	Strawberry & Potato Grower	Pocomoke City	6.77	7.00	.....	.....	4.25	1 80	.....	6.54	6.00	41.11	41.00
35235	Superior Super-Phosphate	Baltimore	2.06	2.00	.....	.....	5.85	2.45	.....	10.01	10.00	21.29	20.00
35059	Wheat & Grass Manure	Baltimore	1.02	1.00	1.04	1.00	4.65	.97	.....	9.17	9.00	19.86	19.00
	Home Fertilizer & Chemical Co., Baltimore, Md.												
35212	Yancy Formula	Baltimore	2.59	3.00	1.46	2.00	5.45	1.62	.....	9.27	8.00	30.17	33.00
	W. H. Hood, Mt. Airy, Md.												
35228	Special Mixture	Mt. Airy	1.14	1.00	.....	.....	8.05	1.80	.....	11.21	9.00	17.63	14.00
	Horsey, Roe & Co., Greensboro, Md.												
35202	Acid Phosphate 16%	Greensboro	.....	.....	.....	.....	13.80	.30	.....	16.07	16.00	16.13	16.00
35203	2-10	Greensboro	2.22	2.00	.....	.....	4.00	1.30	.....	10.70	10.00	22.32	20.00
35195	3-12	Greensboro	3.21	3.00	.....	.....	9.45	.47	.....	11.76	12.00	28.00	27.00
	Hubbard Fertilizer Co., Balto., Md.												
35168	Acid Phosphate 14%	Baltimore	.....	.....	.....	.....	8.90	2.62	.....	14.77	14.00	15.27	14.00

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	Found.	Guaranteed.	Found. Included in Available.	Found.	Guaranteed.	Found.	Guaranteed.		
	Hubbard Fertilizer Co., Balto., Md.												
35010	Acid Phosphate 16%	Canton	.....	.....	.....	.....	15.45	.78	.....	17.30	16.00	$17.46	$16.00
35284	Ammoniated Phosphate	.....	3.02	3.00	.....	.....	4.75	2.28	.....	9.45	10.00	25.46	25.00
35213	Celebrated Rapid Trucker	Baltimore	6.28	5.00	.76	1.00	3.65	1.55	.....	6.71	6.00	42.53	36.00
35278	English Compound	.....	1.41	1.00	1.03	1.00	2.60	3.21	.....	10.72	8.00	24.20	18.00
35060	Excelsior Mixture	Baltimore	2.01	2.00	.....	.....	4.90	1.70	.....	10.41	10.00	21.14	20.00
35082	Farmer's IXL	Baltimore	2.32	2.00	2.24	2.00	.45	2.27	.....	8.30	8.00	32.01	28.00
35277	Fish Mixture (Low Grade)	Baltimore	3.29	3.00	.78	.50	1.90	1.85	.....	8.21	8.00	29.30	25.50
35236	National Compound (Low Gr:)	Baltimore	1.74	2.00	.66	.50	6.80	1.42	.....	12.13	10.00	24.70	22.50
35139	Noxall Phosphate (Low Grade)	Canton	1.37	1.00	.53	.50	3.20	2.42	1.00	9.63	10.00	20.10	17.90
35125	Oriental Guano	Ellicott City	1.19	1.00	.....	.....	6.60	1.57	.....	11.47	10.00	18.05	15.00
35040	7-8-0	Canton	6.71	7.00	.....	.....	5.15	1.35	.....	8.66	8.00	42.75	43.00
35011	Special Guano 7-9-0	Canton	7.02	7.00	.....	.....	7.20	1.67	.....	9.01	9.00	44.78	44.00
	M. P. Hubbard & Co., Inc., Balto., Md.												
35189	Atlas Guano	Baltimore	1.45	1.00	.....	.....	8.25	2.07	.....	10.49	12.00	18.57	17.00
35061	Big Crop Grower	Baltimore	3.84	4.00	.....	.....	5.80	1.87	.....	8.13	8.00	27.88	28.00
35062	Dissolved Phosphate	Baltimore	.....	.....	.....	.....	13.35	1.27	.....	16.02	16.00	16.27	16.00
35190	Domino Compound	Baltimore	2.35	2.00	1.06	1.00	3.50	3.20	.....	7.67	8.00	26.00	23.00
35098	Everybody's Formula	Baltimore	2.85	3.00	.....	....	8.20	1.00	.....	9.58	9.00	24.23	24.00
35237	Fish Phos. & Potash Mixture	Baltimore	1.19	1.00	1.04	1.00	4.15	1.80	.....	10.31	10.00	22.18	20.00
35194	Fish Mixture	Baltimore	5.49	5.00	.....	.....	4.85	2.00	.....	7.66	8.00	35.91	33.00
35169	Good & Cheap Compound	Baltimore	1.18	1.00	1.12	1.00	3.90	1.57	.....	8.39	8.00	20.52	18.00
35041	Great Harvest	Baltimore	2.12	2.00	.....	.....	6.95	2.02	.....	9.52	10.00	20.93	20.00

35206	Havana Special 1916	Baltimore	2.75	3.00	1.18	1.00	3.25	1.87	.....	8.24	8.00	$28.64	$28.00
35238	Slaughter House Formula	Baltimore	1.88	2.00	.....	.....	9.70	1.80	.....	12.31	13.00	22.43	23.00
35084	Sweet Potato Special	Baltimore	1.79	2.00	3.02	3.00	2.70	1.57	.....	8.34	8.00	33.02	33.00
35099	Union Jack	Baltimore	2.03	2.00	.....	.....	7.05	.50	.....	8.09	8.00	18.44	18.00
	Lakeland Phosphate Co., Lakeland, Fla.												
35619	Natursown H. G. Phosphate	Baltimore	.....	.....	.....	.....	.....	*32.64	*32.00	.....	.....	.....	.....
	Lancaster Chemical Co, Lancaster, Pa.												
35714	Dissolved Bone	Aberdeen	2.76	3.00	.....	.....	3.20	1.57	.....	10.39	11.00	24.82	26.00
35804	Economist Fertilizer No. 10	Aberdeen	.24	1.00	.....	.....	2.60	1.92	1.00	9.88	10.00	11.85	15.40
35715	Grain Special No. 6 (Low Gr.)	Aberdeen	.60	.50	.....	.....	9.65	1.50	1.00	10.52	10.00	14.12	12.90
35716	Potato Special No. 19	Aberdeen	1.33	2.00	.16	1.00	7.90	1.95	1.00	11.52	9.00	19.75	24.40
35717	Special Mixture	Rising Sun	.89	1.00	.14	1.00	6.85	1.27	.....	9.41	8.00	15.07	18.00
35718	Wheat & Grass No. 14	Rising Sun	.90	1.00	.....	.....	7.65	1.62	1.00	10.30	10.00	15.45	15.40
	Lister's Agricultural Chemical Works, Newark, N J.												
35503	Atlas Brand Fertilizer	Baltimore	4.79	5.00	.....	.....	6.50	1.17	.....	8 55	8.00	32.97	33.00
35580	Bone Meal	Baltimore	3.04	3.00	.....	.....	.....	*22.47	*22.88	.....	.....	28.68	28.73
35581	Corn & Potato Fertilizer	Baltimore	2.51	2.50	1.02	1.00	1.95	2.12	.....	7.47	8.00	25.97	25.50
35741	Golden Sheaf (Low Grade)	Baltimore	.63	.50	1.04	1.00	3.80	1.25	.....	8.57	8.00	17.42	15 50
35559	Ground Tankage	Baltimore	6.13	6.00	.....	.....	.....	*13.95	*13.73	.....	.....	39.02	38.24
35642	Harvest Queen	Baltimore	1.42	1.50	1.10	1.00	4.30	1 30	.....	9.48	10.00	22.60	22.50
35582	H. G. Acid Phosphate	Baltimore	.....	.....	.....	.....	12.90	.62	.....	16.15	16.00	16.27	16.00
35620	Plant Food	Baltimore	1.14	1.00	.....	.....	7.05	.87	.....	10.21	10.00	16.26	15.00
35504	7-6-0 Fertilizer	Baltimore	6.95	7.00	.....	.....	4.55	1.45	.....	6.81	6.00	42.14	41.00
35739	2-8-2 Fertilizer	Baltimore	2.13	2.00	2.02	2.00	4.00	1.52	.....	7.69	8.00	29.05	28.00
35795	Special Tobacco Fertilizer	Baltimore	2.73	2.50	1.04	1.00	3.25	1.45	.....	9.04	10.00	28.47	27.50
35560	Stand. Sup. Phos. of Lime	Baltimore	2 83	3.00	1.04	1.00	2.95	1.82	.....	9.20	9.00	29.28	29.00
35819	Valley Brand Fert. 1916	Pittsville	1.28	1.00	1.04	1.00	5.60	1.70	.....	9.65	10.00	21.93	20.00
35789	Vegetable Compound	Baltimore	4.90	5.00	1.08	1.00	6.10	1.05	.....	8.08	8.00	38.40	38.00
	Martin Fertilizer Co., Phila., Pa.												
35811	Acid Phosphate 16%	.....	.....	.....	.....	.....	15.80	1.65	.....	18.20	16.00	18.53	16.00
35758	Ammoniated Phos. (L. Gr.)	Sykesville	1.38	1.00	.....	.....	9.65	2.27	.....	11.44	8.00	19.25	13.00
35562	Ammoniated Phosphate 2-8-0	Baltimore	2.24	2.00	.....	.....	6.00	3.32	.....	8.97	8.00	21.50	18.00
35561	Ammoniated Phosphate 4-8-0	Baltimore	3.96	4.00	.....	.....	6.65	2.25	.....	9.21	8.00	29.91	28.00
35522	Ammoniated Phosphate	Baltimore	3.04	3 00	.....	.....	5.80	3.28	.....	9.01	8.00	25.52	23.00
35558	Ammoniated Phosphate	Baltimore	2.08	2.00	....	.....	7.95	2.65	.....	11.20	10.00	22.66	20.00
35696	Ammoniated Phosphate	Baltimore	5.49	5.00	.....	.....	9.10	2.07	.....	10.59	8.00	38.87	33.00
35533	Ammoniated Phosphate	Canton	5.10	5.00	.....	.....	6.00	2.40	.....	8.26	7.00	34.72	32.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	Found.	Guaranteed.	Found. Included in Available.	Found.	Guaranteed.	Found.	Guaranteed.		
	Martin Fertilizer Co., Phila., Pa.												
35643	Ammoniated Phosphate	Baltimore	6.19	7.00	.....	.....	9.80	2.12	.....	10.95	9.00	42.75	44.00
35507	Ammoniated Phosphate 7-8-0	Canton	7.03	7.00	.....	.....	6.70	2.05	.....	8.92	8.00	44.89	43.00
35622	Bull Head	Baltimore	2.93	3.00	.86	1.00	5.95	3.87	.....	9.60	8.00	30.10	28.00
35786	Corn & Cereal Special	Baltimore	2.02	2.00	1.04	1.00	1.65	2 05	.....	8.44	8.00	24.56	23.00
35623	Crop Producer	Canton	1.27	1.25	.....	.....	7.00	3.00	....	10.23	10.00	17.78	16.25
35534	Early Truck & Vegetable Gro.	Baltimore	4.20	4.00	1.08	1.00	6.05	2.10	.....	9.30	8.00	36.54	33.00
35523	Pure Dis. Animal Bone	Baltimore	2.32	2.00	.....	.....	9.05	2 40	.....	11.85	12.00	24.41	22.00
35624	Pure Ground Bone	Ellicott City	2.75	2.00	.....	.....	.....	*22.09	*22.90	.....	.....	27.00	23.74
35625	Pure Raw Bone Meal	Ellicott City	4.74	4.50	.....	.....	.....	*22.75	*21.00	.....	....	37.35	35.10
	Massey & Hines, Chestertown, Md.												
35719	Corn Super-Phosphate	Chestertown	1.19	1 00	.....	.....	2.15	3 50	.....	9.16	10.00	16.51	15.00
35720	Propagator Super-Phos	Chestertown	1.47	2.00	.....	.....	1.90	3.97	.....	7.91	8.00	16.85	18.00
35823	Tomato Super-Phos.	Baltimore	2.34	2.00	.....	.....	8.00	5.00	.....	10.37	10.00	24.07	20.00
35722	Try Me Super-Phos. (Low. Gr.)	Chestertown	.80	.50	.....	.....	1.45	3.02	.....	8.53	9.00	13.74	11.50
	J. O. Maynard & Co., Baltimore, Md.												
35772	H. G. Special Vegetator	Baltimore	3.34	3.00	.....	.....	7.15	2.10	.....	8.66	7.00	26.20	22.00
35563	H. G. Truckers Pride	Baltimore	3.96	4.00	.....	.....	7.90	1.42	.....	9.77	8.00	30.14	28.00
	Medford Fertilizer Works, Medford, Md.												
35759	No. 1 Bone Phosphate	Medford	1.52	1.25	.....	.....	9 55	.67	.....	10.88	9.00	18 75	15.25
35760	No. 2 Bone Phosphate	Medford	1.96	2.00	.....	.....	10.30	2.85	.....	13.63	13.00	24.57	23.00

	Miles River Squab Co., Royal Oak,	**Md.**											
35452	Pigeon Manure Fert. (Low Gr.)	Royal Oak	1.62	1.50	1.16	1.00	.95	.05	.....	3.50	3.00	17.42	15.00
	Miller Fertilizer Co., Baltimore,.	**Md.**											
35513	Acid Phosphate 14%	Ellicott City	.....	.....	.....	.....	10.75	.32	.50	14.17	14.00	14.23	14.10
35583	Club Brand (Low Grade)	Baltimore	.68	.50	.41	.50	3.75	.10	.50	8.67	8.00	14.31	13.20
35514	Farmer's Profit	Ellicott City	1.77	1.75	.....	.....	4.80	.57	.....	8.52	9 00	17.60	17.75
35524	Hustler Phosphate (L. Gr.)	Canton	1.02	1.00	.54	.50	5.25	.40	.50	7.16	8.00	15.12	15.70
35797	M. B. S. (Low Grade)	Hancock	.78	.75	.....	.....	2.70	1.32	.50	7.06	7.00	11 49	10.95
35515	No. 1 Hustler Phosphate	Ellicott City	1.09	1.00	1.04	1.00	6 20	.27	50	8.02	8.00	18 78	18.20
35754	No. 1 Special	Baltimore	2.08	2.00	.....	.....	4 50	2.10	.50	8.92	10.00	20.16	20.20
35516	Potato & Vegetable Grower	Ellicott City	1.96	2.00	1.02	1.00	2.30	1.00	.50	8.09	8.00	23.39	23.20
35826	No. 1 Pot. & Vegetable Grower.	.....	4.23	4.50	1.18	1.00	2.15	.95	.50	8.02	8.00	35.45	35.70
35827	Pimlico	.....	3.04	3.00	.. ...	.....	4.90	.55	.50	7.93	8.00	23.35	23.20
35584	Stand. Amm'd Bone Phos.	Baltimore	2.06	2.00	.....	.....	5.50	.72	.....	9.08	9.00	19.67	19.00
35697	Standard Brand	Baltimore	3.16	3.00	.94	1.00	.85	1.12	.....	7.68	8.00	28.63	28.00
35679	Trucker's Favorite	Baltimore	3.33	3.75	1.06	1.00	2.40	1.10	.....	9.21	9.00	31.60	32.75
35761	W. G. Phosphate (L. Gr.)	Lineboro	.73	.50	.54	.50	3.05	.82	.....	6.61	7.00	13.29	12.00
	Henry F. Michel Co., Phila., Pa.												
35695	Emil Wahl's Button Bone Meal.	Brooklyn	3.46	3.14	.....	.....	.....	*23.72	*22.60	.....	.....	31.53	29.26
	Natural Guano Co., Aurora, Ill.												
45536	Pulv. Sheep Manure (L. Gr.)	Baltimore	2.82	2.73	1.70	1.50	1.15	.12	.....	1.30	1.00	23.95	22.15
	Nassau Fertilizer Co., New York,	**N. Y.**											
35723	Common Sense Fertilizer	Conowingo	1.95	2.00	.....	.....	6.60	2.47	.....	9.60	10.00	20.34	20.00
	J. B. Nichols & Son, Baltimore, Md.												
35644	Farmer's Friend Fertilizer	Baltimore	4.01	4.00	1.64	1.00	6.95	2.70	.....	9.18	7.00	38.51	32.00
	Nitrate Agencies Co., New York,	**N. Y.**											
35698	Ground Bone	Baltimore	3.02	3.00	.....	.....	.....	*25.98	*22.88	.....	.....	30.69	28.73
35773	Ground Dried Blood	Baltimore	16.03	12.00	.....	.....	.....	.....	.....	.....	.....	80.15	60.00
35537	Ground Dried Fish	Baltimore	10.19	10.00	.....	.....	.....	*6.26	*4.57	.....	.....	54.71	52.74
35699	Ground H. G. Tankage	Baltimore	10.05	10.00	.....	.....	.....	*7.31	*4.57	.....	.....	54.64	52.74
35538	H. G. Acid Phosphate	Baltimore	.....	.....	.....	.....	12.90	1.50	.....	16.18	16.00	16.48	16.00
35539	High Grade Tankage	Baltimore	7.42	7.00	.....	.....	.....	*10.27	*6.86	.....	.....	43.26	39.12
	G. Ober & Sons Co., Baltimore, Md.												
35742	Avondale Amm'd Dis. Bone	Baltimore	2.18	2.00	1.38	1.00	3.85	2.67	.....	8.04	8.00	26.91	23.00
35564	Dissolved Animal Bone	Baltimore	3.04	3.00	.....	.....	3.80	6.12	.....	13.07	10.00	30.72	25.00

Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	Found.	Guaranteed.	Found. Included in Available.	Found.	Guaranteed.	Found.	Guaranteed.		
	G. Ober & Sons Co., Baltimore, Md.												
35565	Electro Compound	Baltimore	1.06	1.00	.....	.....	8.35	1.32	.....	11.83	10.00	17.66	15.00
35813	Farmer's Mixture	Baltimore	1.01	1.00	2.03	2.00	1.70	1.50	.....	9.56	9.00	25.36	24.00
35566	Farmer's Stand. Amm'd Phos.	Baltimore	2.42	2.00	2.28	2.00	3.60	2.35	.....	9.08	9.00	33.52	29.00
35626	Golden Seal Tobacco Guano	Baltimore	3.29	3.00	1.38	1.00	5.45	2.20	.....	8.62	8.00	31.85	28.00
35703	H. G. Acid Phosphate	Baltimore	.....	.....	.....	.....	13.60	1.25	.....	16.33	16.00	16.58	16.00
35680	Independ't Amm'd. Super-Phos	Baltimore	1.40	1.00	1.20	1.00	5.55	1.90	.....	8.06	8.00	21.82	18.00
35704	Pure Raw Bone Meal	Baltimore	5.43	4.50	.....	.....	.....	*23.45	*21.00	.....	.....	41.22	35.10
35526	Red King Guano	Baltimore	3.09	3.00	1.30	1.00	5.00	1.12	.....	8 57	8.00	30.97	28.00
35501	Royal Fish & Potash Compound	Baltimore	2.95	2.00	1.18	1.00	6.45	1.25	.....	9.59	9.00	30.74	24.00
35711	Soluble Amm'd. Super-Phos	Baltimore	2.10	2.00	2.02	2.00	5.50	2.02	.....	7.83	8.00	29.24	28.00
35527	Star Vegetable Compound	Baltimore	5.22	5.00	1.42	1.00	6.50	1.82	.....	8.40	8.00	42.33	38.00
35567	Sun Beam Guano	Baltimore	2.34	2.00	.....	.....	6.35	1.67	.....	11.21	10.00	23.58	20.00
	Patapsco Guano Co., Baltimore, Md.												
35780	Blood, Bone & Potash (L. Gr.)	Cockeysville	.70	.50	1.03	1.00	3.35	1.30	.....	7.82	8.00	16.99	15.50
35531	Coon Brand Gauno	Baltimore	1.21	1.00	.88	1.00	4.80	1.20	.....	9.34	9.00	20.27	19.00
35724	Fish Mixture	Centreville	1.91	2.00	.....	.....	5.90	1.82	.....	8.45	8.00	18.73	18.00
35792	Golden Crop Fert. 1916	Baltimore	2.37	2.00	.....	.....	6.30	1.77	.....	10.30	10.00	22.86	20.00
35517	Plant Bed Fertilizer 10-5-1	Canton	9.61	10.00	1.18	1.00	3.45	1.30	.....	5.02	5.00	59.49	60.00
	Patuxent Fish & Oil Co., Solomons, Md.												
35828	Trucker's Joy	Sollers	2.41	2.00	.70	1.00	.65	2.25	.....	8 38	9.00	24.83	24.00

	Peerless Fertilizer Co., Chestertown, Md.												
35726	Fine Ground Bone	Chestertown	8 11	3.00				*26.19	*25.23			31.26	30.14
35658	Fish Mixture	Greenboro	2.20	2.00			4.80	.92	3.00	9.87	8.00	21.24	19.20
35659	Our Corn Fertilizer (L. Gr.)	Federalsburg	.58	.50			1.05	1.82	2.00	8.72	8.00	12.35	11.30
35660	Sweet Potato Special	Greensboro	2.85	3.00			5.25	1.07	3.00	9.63	8.00	24.31	24.20
	Piedmont-Mt. Airy Guano Co., Baltimore, Md.												
35781	Levering's Excelsior	Emmitsburg	1.01	1.00	1.02	1.00	5.15	1.57		7.60	8.00	18.38	18.00
35601	Levering's Harvest Queen	Preston	2.25	1.00	2.26	2.00	3.25	1.47		7.79	8.00	30.93	23.00
35627	Levering's Standard	Baltimore	2 10	2.00			6.50	1.40		8.48	8.00	19.54	18.00
35628	Peerless Phosphate (L. Gr.)	Baltimore	1.21	1.00			6.10	1.85	2.00	8.02	8.00	14.81	13.80
35568	Piedmont Acid Phosphate 14%	Baltimore					12.80	1.10		15.53	14.00	15.75	14.00
35767	Piedmont Acid Phosphate 16%	Baltimore					14.80	.65		17.27	16.00	17.53	16.00
35540	Piedmont Blue Ribbon	Baltimore	3.19	3.00			8.50	1.05		10.66	10.00	27.03	25.00
35541	Piedmont Climax Fert	Baltimore	7.32	7.00			4.85	.70		6.11	6.00	42.99	41.00
35762	Piedmont Economy (L. Gr.)	Mt. Airy	.46	.25			8.05	.27		10.30	10.00	12.71	11.25
35542	Piedmont Fish Guano	Baltimore	2.12	2.00			9.05	.97		11.33	10.00	22.32	20.00
35740	Piedmont Golden Eagle Fert	Baltimore	2.88	2.00	1.26	1.00	7.60	1.22		9.26	8.00	30 44	23.00
35712	Piedmont Gold Star Guano	Baltimore	2 56	2.50			4.30	1 45		8.32	9.00	22.20	21.50
35705	Piedmont Imperial Fert	Baltimore	3.17	3.00	1.02	1.00	6.80	1.25		9.27	9.00	30.72	29.00
35543	Piedmont Leader Fertilizer	Baltimore	4.32	4.00	.96	1.00	5.55	1.15		8 75	8.00	35.61	33.00
35793	Piedmont Plow Brand	Baltimore	2.22	2.00	2.34	2.00	3.35	1.30		8.23	8 00	31.55	28 00
35602	Piedmont Progress Fert	Preston	4.90	5.00			2.45	1.78		6.83	7.00	32.04	32.00
35768	Piedmont Raw Bone Mixture	Baltimore	1.38	1.25	1.86	1.00	2.80	4.80		7.68	8 00	25.80	19.25
35544	Piedmont Special	Locust Pt	4.15	4.00			6.70	.87		8.44	8.00	29.54	28.00
35743	Piedmont Special	Baltimore	3.26	3.00	1.66	1.00	5.35	1.17		7.72	9.00	32.79	29.00
35545	Piedmont Special Crop Grower	Baltimore	1.13	1.00			7.95	1.27		10.43	10.00	16.59	15.00
35546	Piedmont Special Potato Guano	Baltimore	6.33	7.00			5.95	1.27		8.58	8.00	40.74	43.00
35629	Piedmont Special Fertilizer	Baltimore	3.52	4.00			6 50	1.37		8.33	8.00	26.48	28.00
35744	Piedmont Utility Fertilizer	Baltimore	2.30	2.00			7.50	1.15		9.93	10.00	21.89	20.00
35763	Standard Dissolved Bone Phos	Mt. Airy	1.09	1.00			8.45	1.75	2.00	10.73	10.00	16.88	15.80
	Pollock Fertilizer Co., Baltimore, Md.												
35755	Ammoniated "AAA" Fertilizer	Baltimore	3.21	3.00			6.50	2.45		9.85	10.00	26.88	25.00
35630	Corn & Oats Special (L. Gr.)	Canton	1.11	.50	.92	1.00	2.90	1.20		8.04	8.00	18.67	15.50
35508	Corn, Wheat, & Tomato Brand	Canton	1.09	1.00	1.10	1.00	3.55	1.05		8.02	8.00	19.39	18.00
35509	Dissolved Phosphate	Canton					11.05	1.02		14.20	14.00	14.40	14.00
35631	H. G. Super Phosphate	Canton					13.20	.57		16.77	16.00	16.88	16.00
35510	Special Potato & Tobacco	Canton	2.45	2.00	1.02	1.00	4 10	1.52		8.25	8.00	26 21	23.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	Found.	Guaranteed.	Found. Included in Available.	Found.	Guaranteed.	Found.	Guaranteed.		
	Ramsburg Fertilizer Co., Frederic	**k, Md.**											
35748	Ammoniated Bone	Frederick	1.23	1.00	.....	.....	8.60	2.17	.....	11.46	11.00	$18.48	$16.00
35749	Corn & Potato Fertilizer	Frederick	1.42	1.25	.....	.....	8.10	2.07	.....	10.86	10.00	18.79	16.25
35750	Excelsior Plant Food	Frederick	1.72	2.00	.....	.....	7.40	4.60	.....	11.29	10.00	21.73	20.00
35751	Queen (Low Grade)	Frederick	.63	.50	.....	.....	10.00	.42	.....	11.58	10.00	14.90	12.50
35752	Super-Phosphate	Frederick	.....	....	.....	.....	13.25	1 88	.....	16.02	16.00	16.40	16.00
35798	Williams Wheat & Grass Fert	Monrovia	1.16	1.00	.....	.....	8.15	1.62	.....	11.72	10.00	18.17	15.00
	Rasin-Monumental Co., Baltimore,	**Md.**											
35528	Rasin's Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	12.50	1.22	.....	16.14	16.00	16.38	16.00
35632	Rsn. Emer. Royal Fish, Bone&Pot	Ellicott City	2.03	2.00	1.12	1.00	1.90	2.82	1.00	8.30	8.50	25.18	23.90
35776	Rsn. Empire Amm'd Super-Phos.	Baltimore	3.05	3.00	.....	.....	9.00	1.75	1.00	11.32	10.00	27 27	25.40
35633	Rasin's Empire Guano	Baltimore	1.95	2.00	1.80	2.00	6.05	.97	1.00	8.27	8.00	27 41	28.40
35585	Rasin's Pure Raw Bone	Baltimore	4.54	4.50	.....	.....	.....	*23.48	*20.00	.....	.....	36.79	34.50
35646	Rsn. Royal Fish & Bone Guano	Canton	2.13	2.00	.....	.....	9.40	2.65	1.00	11.41	11.00	23.12	21.40
35787	Rsn. Special Crop Preparation	Baltimore	2.64	2.00	.....	.....	8.60	1 12	1.00	11.06	10.00	24.71	20.40
35706	Rsn. Special Crop Preparation	Baltimore	2.27	2.00	.....	.....	9.20	3.30	1.00	11.56	10.00	24.23	20.40
35569	Rsn. Spec. Fish & Bone	Baltimore	2.22	2.00	.....	.....	5.40	4.00	.....	8.82	11.00	21.52	21.00
35634	Rsn. Special Fish Mixture	Ellicott City	1.04	1.00	.....	.....	7.00	1.65	1 00	9.40	10 00	15.26	15.40
35774	Rsn. Special Super-Phosphate	Baltimore	2.34	2.00	.....	.....	8.45	1.70	1.00	10.81	10.00	23.19	20.40
35707	Rsn. Sea Wall Special (L. Gr.)	Baltimore	.....	.....	.....	.....	2.15	1.47	.....	6.72	10.00	7.01	10.00
35647	Rsn. Truck Amm'd Super-Phos.	Baltimore	4.59	5.00	.....	.....	8.00	.92	1.00	9.57	8.00	32.89	33.40
35796	Rsn. Wht. Corn & Oats Mix. (L.G.)	Baltimore	.56	.50	1.88	2.00	6.20	1.15	.....	7.90	8.00	20.56	20.50
35645	William Penn Crop Grower	Baltimore	1.09	1.00	1.76	1.00	2.05	2.12	1.00	6.73	8.00	21.83	18.40

	Reading Chemical Co., Reading, Pa.												
35799	Grain Special (Low Grade)	Hancock	.53	.50			4.45	1.07		7.19	7.00	10.27	9.50
35800	H. G. Acid Phosphate	Hancock					13.95	1.37		16.12	16.00	16.39	16.00
35801	Royal Fish Guano	Hancock	1.19	1.25			9.50	1.52		11.52	12.00	18.08	18.25
	Reindollar Co., Taneytown, Md.												
35782	Acid Phosphate	Taneytown					14.00	.30		16.68	16.00	16.74	16.00
35783	Ammoniated Phosphate	Taneytown	1.72	2.00			8.25	.85		10.10	12.00	19.04	22.00
	W. E. Robinson & Co., Bel Air, Md.												
35661	Veg. & Grain Fertilizer (L. G.)	Fallston	2.02	2.00	.58	.25	4.35	1.00		8.36	8.00	21.76	19.25
	F. S. Royster Guano Co., Baltimore, Md.												
35788	Acid Phosphate 12% (L. Gr.)	Baltimore					10.25	1.75		13.44	12.00	13.79	12.00
35586	Alaska 7% Ammoniated Phos.	Baltimore	6.67	7.00			6.50	.75		8.62	8.00	42.27	43.00
35587	Ammoniated Super-Phos. 5%	Baltimore	4.62	5.00			5.80	.42		7.79	7.00	31.06	32.00
35547	Ammoniated Super-Phos. 7%	Baltimore	6.43	7.00			3.25	2.22		6.13	6.00	39.17	41.00
35588	Cuckoo Crop Grower	Baltimore	1.19	1.00	1.32	1.00	5.60	.40		8.61	8.00	21.32	18.00
35815	Dreadnought Fertilizer	Baltimore	2.64	2.00	2.36	2.00	5.75	2.30		8.76	8.00	34.68	28.00
35778	Drillwell Phosphate	Baltimore	2.88	3.00	.94	1.00	5.30	1.97		7.72	8.00	27.61	28.00
35589	Expo 5% Potato Guano	Baltimore	5.15	5.00	1.02	1.00	5.75	.70		8.04	7.00	39.17	37.00
35648	Fish, Flesh & Fowl	Baltimore	2.18	2.00	2.62	3.00	5.25	1.57		7.71	8.00	32.34	33.00
35590	Flamingo Amm'd Super-Phos.	Baltimore	2.61	2.50			10.00	.62		12.50	12.00	25.80	24.50
35681	Innovation Amm'd. Super-Phos.	Baltimore	3.14	3.00			6.85	1.77		8.83	8.00	25.24	23.00
35649	Logical Compound	Baltimore	2.03	2.00	1.02	1.00	4.35	1.05		8.53	8.00	24.20	23.00
35591	Penguin Amm'd Super-Phos	Baltimore	2.13	2.00			6.45	1.37		10.38	10.00	21.58	20.00
35682	Potatomato Fish Mixture	Baltimore	2.32	2.00	1.02	1.00	5.40	.95		7.91	8.00	24.99	23.00
35650	Royal Blue Amm'd Super-Phos.	Baltimore	1.28	1.00			5.00	1.47		10.13	10.00	17.12	15.00
35777	Royal Blue Amm'd Super-Phos.	Baltimore	1.57	1.00			8.40	1.70		10.92	10.00	19.45	15.00
35651	Special Wheat Grower	Baltimore	1.21	1.00			10.35	1.52		11.95	12.00	18.61	17.00
35700	Tomato Fish Mixture	Baltimore	2.39	2.00	2.18	1.00	3.40	1.35		7.05	8.00	30.44	23.00
35592	Wheat, Oats & Barley Fert.	Baltimore	1.28	1.00	1.82	2.00	5.50	.90		8.11	8.00	23.97	23.00
	Scott Fertilizer Co., Elkton, Md.												
35662	Ammoniated Base	Dublin	2.04	2.00			9.50	1.07		12.69	12.00	23.32	22.00
35663	Crop Grower	Rising Sun	1.89	2.00			10.00	1.07		12.41	8.00	22.29	18.00
35664	Potato Grower 1917	Dublin	1.88	2.00	1.34	1.00	6.90	1.40		11.61	10.00	28.27	25.00
35665	Pure Ground Raw Bone	Rising Sun	4.97	4.00				*22.84	*21.50			38.55	32.90
35666	Special Grain Grower	Rising Sun	1.01	1.00			8.59	1.17		11.57	10.00	17.09	15.00
35727	Sure Growth Compound 1917	Aberdeen	3.67	4.00	1.50	1.00	7.80	2.20		10.55	10.00	37.28	35.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	Found.	Guaranteed.	Found. Included in Available.	Found.	Guaranteed.	Found.	Guaranteed.		
	Scott Fertilizer Co., Elkton, Md.												
35667	Sure Growth Super-Phosphate..	Port Deposit.....	2.06	2.00	1.12	1.00	3.90	2.35	.....	8.36	8.00	25.20	23.00
35728	Tip Top Soluble Phosphate.....	Conowingo.....	.....	.....	.....	.....	12.55	.57	.....	15.07	14.00	15.18	14.00
35668	Tip Top Soluble Phosphate.....	Rising Sun.....	.....	.....	.....	.....	13.80	.77	.....	16.10	16.00	16.25	16.00
	Standard Guano Co., Baltimore, Md.												
35756	Big Four Crop Grower (L. Gr.).	Towson.....	.68	.50	.30	.50	7.50	2.12	....	10.55	11.00	16.30	16.00
35635	Complete Fertilizer.....	Baltimore..	3.70	4.00	3.14	4.00	4.65	2.00	.....	8.98	8.00	43.98	48.00
35708	Watermelon Fertilizer	Baltimore.....	2.66	2.00	3.30	3.00	3.65	2.15	.....	7.44	8.00	38.10	33.00
	W. H. Streett & Co., Fallston, Md.												
35511	Ammoniated Dissolved Bone....	Canton	1.74	1.50	1.06	1.00	4.45	.68	.50	10.44	9.00	24.71	21.70
35825	Animal Compound.....	.....	2.76	2.50	.....	.....	5.70	1.52	.50	8.81	10.00	23.22	22.70
	Superior Guano Co., Baltimore, Md.												
35709	M. B. W. Acid Phosphate 16%..	Baltimore.....	.....	.....	.....	.....	13.50	1.05	.....	15.91	16.00	16.12	16.00
35745	M. B. W. A. & H. Pot. Grower.	Baltimore.....	1.37	1.00	1.22	3.00	.30	2.57	.....	6.10	9.00	20.08	29.00
35518	Ammoniated Phos. & Potash ...	Canton	1.47	1.00	1.48	2.00	.65	1.80	.....	6.47	8.00	21.94	23.00
35818	M. B. W. Big Crop Grower.....	Ellicott City.....	1.77	2.00	1 84	2.00	.45	1.40	.....	9.04	8.00	27.65	28.00
35683	M. B. W. Corn & Grass (L. Gr.)	Canton	.....	.....	.66	1.25	.35	3.15	.....	5.59	8.00	9 52	14.25
35684	M. B. W. Corn & Tomato (L. Gr.)	Canton	.....	.....	.58	2.00	.05	2.50	.....	5.58	8.00	8.98	18.00
35816	M. B. W. Crop Producer.....	Baltimore.....	1.11	1.00	.34	1.00	2.00	1.75	.....	10 14	8.00	18.09	18.00
35604	M. B. W. Dissolved Bone.....	Centreville.....	1.60	1.25	.....	.....	7.85	2.40	.....	11.37	10.00	20.33	16.25
35652	M. B. W. Dissolved Bone.....	Baltimore.....	2.59	2.00	.....	.....	6.90	3.00	.....	10.39	10.00	24.54	20.00
35595	M. B. W. Dissolved Bone.....	Baltimore.....	2.05	2.00	.....	.....	5.10	4.20	.....	8.23	8.00	20.16	18.00

35605	M. B. W. Half & Half (L. Gr.)	Centreville	.....	.....	.94	1.50	.45	3.00	....	6.36	8.00	11.66	15.50
35669	M. B. W. Potato Special	Chesapeake City	2.88	3.00	1.64	3.00	0.00	3.40	.....	4.95	8.00	28.91	38.00
35812	M. B. W. Royal Crop Grower	Baltimore	2.05	2.00	1.16	1.00	.80	3.07	.....	7.59	8.00	24.87	23.00
35548	M. B. W. Spec. Corn & Grass (L. Gr.)	Baltimore	.....	.....	1.52	1.25	.25	2.37	.....	6.24	8.00	14.31	14.25
35746	M. B. W. Spec. Corn Grower	Baltimore	1.74	2.00	.....	.....	9.40	.95	.....	11.63	10.00	20.71	20.00
35806	M. B. W. Special Mixture	Baltimore	2.18	2.00	1.02	1.00	.45	4 05	.....	6.98	8.00	24.60	23.00
35606	M. B. W. Special Mixture	Centreville	2.39	3.00	.....	.....	6.95	2.65	.....	10.01	10.00	23.02	25.00
35520	M. B. W Special Mixture	Canton	1.81	2.00	.....	.....	7.75	2.22	.....	10.47	10.00	20.41	20.00
35521	M. B. W. Special Mixture (L.G.)	Canton	.....	.....	1.52	1.50	.70	1.15	.....	8.49	8.00	16.32	15.50
35596	M. B. W. Special Truck	Baltimore	2.92	3.00	.86	1.00	2.15	2.07	.....	7.40	8.00	27.13	28.00
35597	M. B. W. Stevens Aspa'gus Mix	Baltimore	2.73	4.00	.....	.....	1.20	2.32	.....	8.73	10.00	23.31	30.00
	Swift & Co., Inc., Baltimore, Md.												
35607	Bone Meal & Phos. 1–20	Georgetown	1.83	1.00	.....	.....	7.75	6.15	.....	10.91	20.00	22.52	25.00
35764	Cereal Fertilizer	Mt. Airy	1.09	1.00	.....	.....	5.90	.72	.....	8.11	9.00	13.85	14.00
35794	Clay Soil 2–12–0	Baltimore	2.02	2.00	.....	.....	8.75	1.07	.....	11.52	12.00	22.05	22.00
35636	Fall Potato Grower	Baltimore	2.25	5.00	1.74	2.00	6.90	1.15	.....	10.22	8.00	30.63	43.00
35790	Farmer's Favorite Fert.	Baltimore	1.83	2.00	.92	1.00	7.10	1.00	.....	9.30	8.00	23.45	23.00
35637	Garden City Phosphate	Baltimore	.....	.....	.....	.....	10.25	1.17	.....	13.38	14.00	13.61	14.00
35685	Golden Grain Grower	Baltimore	3.60	2.00	2.64	5.00	7.00	1.00	.....	8.88	8.00	40.48	43.00
35686	Grain Fertilizer 1-8-2	Baltimore	.68	1.00	1.86	2.00	5.80	.85	.....	8.16	8.00	21.20	23.00
35810	Ground Beef Bone Fertilizer	Baltimore	2.54	2.50	.....	.....	.....	*26.89	*27.00	.....	.....	28.83	28.70
35549	H. G. Acid Phosphate	Baltimore	.....	.....	.....	.....	12.90	1.20	.....	16.45	16.00	16.69	16.00
35458	H. G. Acid Phosphate	Solomons (J. F.W.)	.....	.....	.....	.....	10.25	2.02	....	14.02	16.00	14.42	16.00
35670	New York State Potato Fert	Kingston	4.11	4.00	2.28	2.00	2.20	3.10	.....	5.75	8.00	38.94	38.00
35769	Prolific 2–9–0	Baltimore	2.34	2.00	.....	.....	7.55	.60	.....	9.92	9.00	21.86	19.00
35729	Pure Bone Meal Fertilizer	Snow Hill	3.07	3.00	.....	.....	...	*29.52	*32.11	.....	.....	33.06	34.27
35502	Pulv. Sheep Manure (L. Gr.)	Baltimore	2.37	2.00	2.32	1.50	.50	.25	.....	1.35	1.00	24.90	18.50
35550	Red Steer 2–8–2	Baltimore	2.05	2.00	2.14	2.00	3.90	1.37	.....	7.01	8.00	28.51	28.00
35713	Reliable Grain Fertilizer	Baltimore	1.06	1.00	1.08	1.00	7.10	.80	.....	8.81	8.00	19.83	18.00
35551	Spec. Balto. Formula 4–10–0	Baltimore	4.01	4.00	.....	.....	7.15	2.37	.....	10.94	10.00	31.94	30.00
35736	Special Corn Grower 2–10–0	Baltimore	2.32	2.00	.....	.....	8.85	.47	.....	10.16	10.00	21.95	20.00
35552	Special Diamond "A" Fert.	Baltimore	2.90	3.00	.....	.....	5.45	2.65	.....	8.02	8.00	23.58	23.00
35638	Special Early Truck 5–7–1	Baltimore	4.47	5.00	1.28	1.00	3.60	2.27	.....	6.53	7.00	36.29	37.00
35553	Special Formula 4–8–0	Baltimore	4.02	4.00	.....	.....	5.60	.92	.....	8.20	8.00	28.67	28.00
35779	Special Formula No. 1	Ellicott City	1.02	1.00	..	.....	11.40	.67	.....	14.02	14.00	19.39	19.00
35817	Standard Potato Fertilizer	Baltimore	2.02	2.00	3.20	3.00	5.40	1.05	.....	7.89	8.00	34.41	33.00
35639	3–10–0	Baltimore	2.88	3.00	.....	.....	7.20	2.60	.....	10.23	10.00	25.67	25.00
35554	Trucking Compound 7–6–0	Baltimore	6.91	7.00	.....	.....	3.40	2.15	.....	5.93	6.00	41.34	41.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available			
			Found.	Guaranteed.	Found.	Guaranteed.	Found. Included in Available.	Found.	Guaranteed.	Found.	Guaranteed.		
	Swift & Co., Inc., Baltimore, Md.												
35687	Virginia Tobacco Grower	Baltimore	5.02	5.00	.....	.....	4.00	1.42	.....	6.47	7.00	32.14	32.00
35784	Wheat & Rye Grower	Baltimore	2.03	2.00	.....	.....	5.65	.65	.....	8.39	8.00	18.80	18.00
	Tanner Hide & Tallow Co., Hagerstown, Md.												
35802	Animal Tankage	Hagerstown	6.72	5.00	.....	.....	.....	*10.57	*12.00	.....	.....	39.94	32.20
35803	Bone Phosphate	Hagerstown	1.95	2.00	.....	.....	8.80	2.90	4.00	11.05	8.00	21.96	19.60
	H. S. Taveau & Co., Baltimore, Md.												
35570	Florida Phosphate	Baltimore	.....	.....	.....	.....	11.20	.90	.....	14.59	14.00	14.77	14.00
35571	Pride of Maryland	Baltimore	1.33	1.50	.90	1.00	4.45	1.20	.....	11.30	10.00	22.93	22.50
35710	Special Compound	Baltimore	2.05	2.00	.....	.....	5.15	1.72	.....	9.83	10.00	20.77	20.00
35693	Special Compound No. 2	Waldorf	1.13	1.00	.96	1.00	5.55	1.52	.....	9.83	10.00	20.89	20.00
35555	Strawberry Top Dressing	Baltimore	5.56	5.00	1.28	1.00	3.15	.80	.....	5.02	4.00	39.54	34.00
35805	Sweet Potato Manure	Baltimore	2.63	3.00	1.04	1.00	3.75	2.30	.....	8.70	8.00	27.97	28.00
	Thomas & Co., Frederick, Md.												
35753	Harvest Queen Phosphate	Barnesville	1.55	1.25	.....	.....	9.60	1.22	.....	11.82	10.00	20.06	16.25
	I. P. Thomas & Son Co., Phila., Pa.												
35572	Farmer's Choice Fertilizer	Annapolis	3.11	3.00	.....	.....	6.05	1.55	.....	9.80	10.00	25.97	25.00
35573	Pure Ground Bone	Annapolis	3.02	3.00	.....	.....	.....	*24.59	*23.00	.....	.....	29.85	28.80
35574	Tip-Top Fertilizer	Annapolis	3.03	3.00	1.22	1.00	4.70	1.78	.....	8.64	8.00	30.60	28.00
35575	Wheat & Corn Guano	Annapolis	2.58	2.00	.....	.....	5.30	1.27	.....	9.25	10.00	22.66	20.00

	Wm. B. Tilghman Co., Salisbury, Md.												
35671	Acid Phosphate 16%	Princess Anne	.....	.....	.....	.....	14.00	1.00	.....	17.81	16.00	18.01	16.00
35657	Fish Bone Phosphate	Preston	1.11	1.00	.....	.....	8.20	1.05	.....	10 86	11.00	16.83	16.00
35608	H. G. Early Truck Guano Rev.	Preston	4.73	5.00	.....	.....	6.85	.97	.....	8.88	8.00	32.92	33.00
35672	Irish P. Guano	Hebron	6.74	7.00	.....	.....	6.80	1.05	.....	8.04	8.00	42.16	43.00
35609	Mixture B. Revised 1916	Preston	3.72	4.00	.....	.....	7.00	1.25	.....	9.35	9.00	28.45	29.00
35673	7%	Westover	6.33	7.00	.....	.....	6.20	.80	.....	7.84	6.00	39.81	41.00
35610	Special Mixture (Low Grade)	Preston	.53	.33	.....	.....	9.45	.80	.....	12.61	12.00	15.58	13.65
35611	Special Potato Fertilizer	Preston	3.03	3.00	.....	.....	7.40	1.15	.....	9.97	9.00	25.58	24.00
35612	Special Tomato Mixture	Preston	2.10	2.00	.....	.....	8.40	1.20	.....	10.51	10.00	21.49	20.00
35613	Standard Fish Mixture	Preston	2.12	2.00	.....	.....	7.95	1.42	.....	10.97	10.00	22.14	20.00
	J. E. Tygert Co., Philadelphia, Pa.												
35674	Acid Phosphate 14%	Berlin	.....	.....	.....	.....	12.00	.65	.....	15.42	14.00	15.55	14.00
35785	Ammoniated Fert. "AA"	Baltimore	2.08	2.00	.....	.....	6.70	1.70	.....	10.11	10.00	21.19	20.00
35675	H. G. Special Fertilizer	Berlin	4.61	5.00	1.04	1.00	6.05	.72	.....	8.81	8.00	37.35	38.00
35730	Neptune Fish Comp. (L. Gr.)	Conowingo	1.01	1.00	.70	1.00	5.15	.80	.....	7.81	7.00	16.68	17.00
35747	7-6-0 Fertilizer	Baltimore	6.62	7.00	.....	.....	4.40	1.42	.....	6.15	6.00	39.82	41.00
	Tuscarora Fertilizer Co., Baltimore, Md.												
35576	Standard Phosphate	Baltimore	1.93	2.00	1.74	2.00	4.20	1.10	.....	8.56	8.00	27.35	28.00
	E. S. Valliant & Son, Church Hill, Md.												
35808	Ammoniated Potash Mix. (L.G.)	Baltimore	.36	.25	.32	.25	4.85	.78	.....	9.17	10.00	12.88	12.50
35556	Caroline Mixture (Low Grade)	Baltimore	1.55	1.25	.....	.....	5.05	.80	.....	8.51	8.00	16.58	14.25
35688	Diamond Brand	Baltimore	1.16	1.00	.....	.....	6.85	1.30	.....	10.04	10.00	16.36	15.00
35653	Favorite Brand	Baltimore	2.03	2.00	.....	.....	4.65	1.30	.....	9.59	10.00	20.26	20.00
35770	General Crop Mixture	Baltimore	1.13	1.00	1.14	1 00	2.45	1.75	.....	7.73	8.00	19.78	18.00
35532	5-8-0	Canton	5.01	5.00	.....	.....	4.40	.87	.....	7.61	8.00	33.01	33.00
35689	1-8-0 (Low Grade)	Baltimore	1.37	1.00	.....	.....	3.70	1.15	...	7.11	8.00	14.42	13.00
35690	3-8-0 Fertilizer	Baltimore	2.88	3.00	.....	.....	2.80	.92	.....	7.48	8.00	22.25	23.00
35701	3-10-0	Baltimore	2.64	3.00	.....	.....	6.85	2.10	.....	10.02	10.00	24.06	25.00
35557	Tomato Guano	Baltimore	1.69	2.00	.....	.....	4.55	.70	.....	8.51	8 00	17.24	18.00
35577	Truck Compound	Baltimore	3.84	4.00	.....	.....	6.40	.72	.....	9.23	8.00	28.72	28.00
	W. H. Valliant & Bro., Bellevue, Md.												
35614	Crab Phosphate (Low Grade)	Bellevue	3.07	3.00	.....	.....	.10	.50	.....	1.89	2 00	17.44	17.00
35460	Fish Scrap	Trappe (P. K.)	7.56	10.00	.....	.....	.....	*5.50	.....	.....	.....	41.10	50.00
	Virginia-Carolina Chemical Co., Richmond, Va.												
35654	Champion Manure (L. Gr.)	Canton	.67	.50	1.34	1.00	3.45	1.82	1.00	7.42	8.00	18.20	15.90

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Sender's initials when not Sampled by the College Agent)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.						Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed
							Water Soluble	Insoluble		Available				
			Found.	Guaranteed.	Found.	Guaranteed.	Found. Included in Available.	Found.	Guaranteed.	Found.	Guaranteed.			
	Virginia-Carolina Chemical Co., Richmond, Va.													
35771	Special Compound	Baltimore	1.09	1.00	1.18	1.00	2.10	1.75	1.00	7.69	8.00		$19.74	$18.40
35655	Special Fish Preparation	Canton	1.06	1.00	.....	.....	8.25	2.17	1.00	10.37	10.00		16.54	15.40
35775	Star Super-Phos. (L. Gr.)	Baltimore	1.08	.50	.....	.....	7.15	1.70	1.00	9.54	10.00		15.62	12.90
35529	Star Trucker's Special	Baltimore	5.17	5.00	.....	.....	3.90	3.15	1.00	5.74	8.00		33.85	33.40
35530	Truck & Vegetable Super-Phos.	Baltimore	4.18	4.00	.....	.....	4.75	2.57	1.00	6.83	8.00		28.76	28.40
	J. & R. Walters, Hanover, Pa.													
35461	Fertilizer (Low Grade)	Harney (F.A.W.)	.21	.....	.12	.....	.....	*.44	.....	.....	.....		1.91	†10.00
	S. L. Webster & Son, Cambridge, Md.													
35731	Acid Phosphate 14%	East New Market	.....	.....	.....	.....	11.25	1.92	.....	13.51	14.00		13.89	14.00
35615	Fish & Bone	Cambridge	1.52	1.50	.....	.....	9.25	1.60	.....	11.85	10.00		20.09	17.50
35732	Fish Mixture	Rhodesdale	1.50	2.00	.....	.....	7.20	2.12	.....	9.84	8.00		18.19	18.00
35616	Fish Mixture	Cambridge	2.08	2.00	.....	.....	8.05	1.27	.....	10.40	10.00		21.31	20.00
35737	Our No. 2 Brand	Baltimore	3.43	2.00	1.02	2.00	7.35	1.67	.....	8.40	8.00		31.32	28.00
35676	Pea, Bean & Truck Guano	Rhodesdale	2.10	3.00	.....	.....	8.25	2.52	1.00	11.03	8.00		22.54	23.40
	Westminster Fertilizer Co., Westminster, Md.													
35765	Governor	Westminster	1.45	1.50	.....	.....	8.70	1.32	.....	11.32	11.00		19.10	18.50
35766	Super-A	Westminster	1.08	1.00	.....	.....	5.40	1.65	.....	8.14	9.00		14.10	14.00
	Harry W. Whistler, Bel Air, Md.													
35677	Fish, Bone & Pot. Mix. (L. Gr.)	Fallston	.67	.50	.54	.50	2.50	1.37	.....	8.67	8.00		15.27	13.00

	Robert A. Wooldridge Co., Baltim	**ore, Md.**											
35738	Ammoniated Phosphate.....	Baltimore.....	1.09	1.00	.92	1.00	5.65	1.50	.....	8.33	8.00	$18.98	$18.00
35809	Cereal Crop Gro. 1916 (L. Gr.).	Baltimore.....	1.26	1.00	.....	....	4.00	1.62	.....	8.31	8.00	15.26	13.00
35599	Common Sense Super Phosphate	Baltimore.....	3 91	4.00	.....	.....	6 85	2.35	.....	10.01	10.00	30.50	30.00
35807	FarmersFav.CerealComp.(L.G.)	Baltimore.....	1.08	.50	.94	1.00	2.10	1.32	.....	8.16	8.00	18.79	15.50
35578	General Crop Grower (L. G.) ..	Baltimore.....	1.23	1.00	.....	....	4.15	.85	.....	8.62	8 00	15.11	13.00
35640	H. G. Acid Phosphate.....	Baltimore.....	.....	.....	.....	...	12.75	.77	.....	16.02	16.00	16.17	16.00
35600	H. G. Dissolved Animal Bone...	Baltimore.....	2.80	2.50		.....	4.35	3.20	.....	12.50	12.00	27.78	24.50
35702	Maryland XXV Phosphate.....	Baltimore.....	1.11	1.00	1.02	1.00	3.70	1.30	.....	8 02	8.00	19.19	18.00
35617	Old Fidelity Phosphate.....	Centreville.	2.13	2.00	.....	.....	5.10	1.82	.....	9.69	10.00	21.07	20 00
35691	Royal Cresent Trucker	Baltimore.....	4.91	5.00	1.22	1.00	5 30	1.07	.....	8.49	7.00	39 57	37.00
35579	Special Fish Mixture.....	Baltimore	2.73	2.50	.....	.....	4.65	1.17	.....	8.41	8.00	22.53	20.50
35694	Special Potato & Tobacco Fert..	Morgantown.....	2.01	2.00	1.02	1.00	6.30	1.45	.....	10.31	10.00	26.04	25.00
35641	Special Wheat & Grass Grower.	Baltimore.....	1.66	1.50	.....	.....	6.75	1 32	.....	10.43	10.00	19.26	17.50
35455	Special Wheat & Grass Grower.	St. Michaels(A.W.)	2.04	1.50	...	.....	6.25	1.62	.....	10.02	10.00	20 87	17.50
35618	Triumph Brand Phos. 1916.....	Centreville.....	1.57	1.50	.90	1.00	5.05	2.00	.....	10.07	10.00	23.22	22.50
35454	Triumph Brand Phos. 1916....	St.Michaels (A. W.)	1 55	1.50	1.01	1.00	3.80	2 42	.....	9.76	10.00	23.53	22.50
	Worcester Fertilizer Co., Snow Hi	**ll, Md.**											
35678	Early Trucker	Berlin	5.09	5.00	.....	.....	8.50	1.85	.....	10.47	8.00	36.66	33.00
35733	General Crop Grower.....	Snow Hill.....	2.53	2.00	.....	.....	7.95	3.65	.....	10.50	10.00	24.61	20.00
35734	Special Mixture	Snow Hill.....	2.06	2.00	.....	.....	8.60	3 32	.....	11.28	10.00	22.91	20.00
35735	Tomato Compound.....	Snow Hill.....	2.83	3.00	.....	.....	6.80	2.02	.....	9.78	10.00	24.99	25.00

*Total Phosphoric Acid. †Selling price.

FERTILIZERS USED IN MARYLAND.

Under the Fertilizer Law annual reports of the number of tons of fertilizers sold for use in Maryland is reported to the State Chemist. The effect of the great war was to diminish the consumption of fertilizers due, first, to the cutting off of the supply of potash and later to low prices of agricultural products and increased price of fertilizer materials. With the decided increase in the prices of all staple agricultural products since the fall of 1916, however, the demand for fertilizers has increased and the tonnage used in the spring of the present year was greater than ever before. This will be the case this fall, provided the manufacturers can supply the demand. The number of tons of fertilizers consumed in Maryland in recent years is as follows:

FERTILIZER USED IN MARYLAND—TONS.

1913	1914	1915	1916
178,500	179,000	170,000	155,200

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